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JUVENILE ENTERTAINER.

" Torquel ab obsecenis jam nune sermonibus aurem."

No. 31.

Pictou, N.S. Wednesday Morning, February 29, 1832.

Vol. 1.

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BIOGRAPHY.

The Progress of Genius

MOM OBSCURE AND LOW SITUATIONS, TO EMI-NENCE AND CELEBRITY.

Genius is that gift of God which learning cannot confer, which no disadvantages of birth or education can wholly obscure.'

STUART, (JAMES)

The celebrated Architect, and commonly called the the eldest son) was under the necessary of employing me to another remark.

LITERATURE.

OF THE NOURISHMENT AND GROWTH OF ANIMALS.

Let us proceed in the next place to survey new wonders. All the animals of the Creation, as well as the plants, have their original nourish ment from these simple materials, earth and wa ter. For all the animal beings which do not live upon other animals, or the produce of them, take some of the vegetables for their food; and thus How solid and hard are the teeth which grind bodies. the brutes of prey are originally indebted to the the food? How firm the general ligaments that plants and herbs, i e to the earth for their sup- tie the joints of that creature together? What ment? how has luxury even tired itself in the inport, and their drink is the watery element horny hoofs are his support, and with what dif-That all flesh is grass, is true in the interal, as ferent sort of horny wenpons has Nature furnish and endless variety? Yet when they pass into well as the metaphorical sense. Does the hon-ed his forehead? Yet they are all framed of the common boiler of the stomach, and are car-

THE JUVENILE ENTERTAINER instances of wonder in this acene of Divine con- tinet forms? This is a most unreasonable sup-

the same vegetable food! The self-same her uniform food into the several parts of the animal Five shillings per Annum, delivered in Town, and bage or fruits of the earth, by the divine laws by his appointed laws, and gives proper nourish-six shillings and three pence, when sent to the coun- of Nature and Providence, are converted into ment to each of them. animated bodies of very distinct kinds. Could If the food of which one single animal partaken When not paid half yearly in aloance, seven you imagine that half the fowls of the air as be never so various and different, yet the same Any person ordering five copies will be reckoned different as they are, from the crow to the tit- laws of motion, which God has ordained in the nagent, and shall receive a copy gratis.

Industry their flesh and blood from animal world, convert them all to the same pur-The names of subscribers residing at a distance the productions of the same tree where the swine poses of nourishment for that creature. Behold will not be required at the Office; they shall be ac- watches under the boughs of it, and is nourished the little bee guthering its honey from a thousand ountable to the Agent through whom they receive by the droppings of the fruit? Nor need I stay flowers, and laying up the precious store for its to the foregoing terms.

To take notice what numerous insects find their winter food. Mark how the crow prey; upon a of to the foregoing terms.

Ito take notice what numerous insects find their winter food. Mark how the crow prey; upon a full Letters and Communications must be post paid. nests and their food all the summer season from carcass, anon it crops a cherry from the tree; the same apples or appronts, plumbs or cherries. and both are changed into the flesh and feathers which feed hogs and cows and a hundred small of a crow. Observe the kine in the meadows the grass to nourish its own flesh, and to array nourishment for young children, uself with down and feathers. Strange and So near a kin is man the lord

eat the flesh of the lamb? Doth the lamb suck the same grassy materials: The calf grazes ned thence through the intestines, there is a the milk of the ewe? But the ewe is nourished upon the verdant pasture, and all its lands and white juice strained out of the strange in: sture cal by the grass of the field Does the kite devour powers grow up out of the food to the size and led chyle, which from the lacteal vessels is conthe chicken, & the chicken the little caterpillars, firmness of an ox. Can it be supposed that all veyed into the blood, and by the laws of nature or insects of the spring? But these insects are these corpuscles, of which the several inward is converted into the same crimson liquit. This ever feeding on the plants, and the green pro- and outward parts of the brute are composed, being distributed through all the body by he arteduces of the ground. The earth, moistned with are actually found in their different and proper ries, is further strained again through the pro- water, is the common nurse of all: even the forms in the vegetable food? Does every spire per vessels, and becomes the spring of nourishshes of the sea are nourished with some green of grass actually contain the specific parts of ment to every different part of the animal Thus

MONOCO CONTRACTOR CONT position and vain philosophy. No, it is the wis-What very different animals are nourished by dom of the God of Nature that distributes the

> birds. Would you think that the black and the feeding on a hundred variety of herbs and flowbrindled kine, with the horses both grey and ers, yet all the different parts of their bodies are hay, should clothe themselves with their hairy nourished thereby in a peoper manner: Every skins, of so various colours, out of the same flower in the field is made use of to increase the green pusture where the sheepfeeds, and covers flesh of the heder, and to make beef for men: himself with his white and woolly fleece? And and out of all these varieties there is a nuble at the same time the goose is cropping part of milky juice flowing to the udder, which provides

So near a kin is man the lord of the creation. stupendous texture of the hodies of these crea in respect of his body, to the hrutes that are his tures, that should convert the common green slaves, that the very same food will compose the the celebrated Arendeed, and commonly called the herbage of the field into their different nature flesh of both of them, and make them grow up to maintain whom, and the rest of the family, he (being and their more different clothing! But this leads their appointed stature. This is evident, bevond doubt in daily and everlasting experiments. Mr Revott the Archiect, with whom he went to Athens, same creature!

An approximation of the will give itch support to sparrows and piceons, Mr Revett the Arcontect, with whom he went to Athens, same creature! An animated hady is made un to the turkey, and the duck, and all the fowls of funcient architecture. This ingenious man, on installed and blood, bones and membranes. long the yard: The mouse steals it, and feeds on it eturn to England, was appointed surveyor of Greenwich hollow tubes, with a variety of liquors contained in his dark returements, while the hog in the sty, ospital.

ospital.

on them, together with many strings and tendons, and the horse in the manger, would be glad to and a thousand other things which escape the partake. When the mor cottager has nursed naked sight, and for which anatomy has hardly up a couple of geose, the fox seizes one of them found a name. Yet the very same food is, by for the support of her cubs, and perna is the the wondrous skill and appointment of the God table of the landlord is formshed with the other of Nature, formed into all these amazing differ- to regale his friends: Nor is it an uncommon ences. Let us take an ox to pieces, and survey thing to see the favourite lap dog fed out of the the wondrous composition. Besides the flesh same bowl of milk which is prepared for the heir of this huge living structure, and the bones on of a wealthy family, but which Nature had originalwhich it is built, what variety of tender coats and by designed to nourish a calf. The same maky humours belong to that admirable organ the ever material will make calves, Inp dogs, and human

How various are our dishes at the entertainregetables that spring up there, or by preying the horn and the hoof, the teeth and the tendons, the God of Nature has ordained, that how diverse on lesser fishes which feed on these vegetables, the glands and membranes, the humours and soever our meals are, they shall first be reduced.

But let us give our meditations a loose on this coats of the eye, the liquids and solids, with all to a uniform milky liquid, that by new contri-

the operations of Divine Wisdom in this single ing. Their eyes are fixed, and they have no instance of nourishment! But it is no wonder eyebrows, but to prevent them from injury the that a Good who could create see actonishing latter want is supplied by the external tunic of different species of insects, I would briefly obtained and exquisite pieces of machine plants and their eyes being hard and transparent, and to serve, that in the mouth of the Gnat we have an entirely could receive the could be and the could receive the could be coul animals, could prescribe such laws to matter remedy the former some insects have four, some admirable specimen of the instrument necessary individuals, as well as to propagate the species some of those who have only two is amazing inthrough all ages to the end of time.

THE BOOK OF NATURE LAID OPEN.

INSECTS.

particular order of the creatures of the Almighty degree of dignity. If while we dissect with care very defficult, if not impossible, to say where it is most, and where it is least to be observed."

to do any thing like justice to a subject, which of a mouth, a nose, and a windpipe! can never be sufficiently investigated. I would however, consistent with my general plan, notice which it will be sufficiently evident that insects are also the children of the same common parent, whose wisdom and goodness are so conspicuous

in his other works.

In the head of an insect no organization of the brain is said to be discovered, but the want of this is abundantly made up by that medullary thread which communicates the vital principal to the other parts of their bodies, and endows them tender charge of infants not their own. with that tenacity of life, which, as has been already observed, is so useful to the species, survey of the insect tribes, is the wonderful Nonther are they apparently furnished with the transformation many of them undergo in the difusual organs of smelling and hearing, but whe- ferent stages of an egg, a grub or worm, a chryther the olfactory nerves communicate with the salis, till they arrive at their most perfect or fly feelers, and the auricular organs are situated in state; in each of which changes not only their upon insects, there can be no doubt but the prethe antenne, as Mr. BARBUTT supposes, for not, form and structure, but their very nature and cipal object the Creator had in view in the for a brother in distress, when he alarms them by to flower: how wonderful the change from that spective spheres, to the service of man. By the his noise outside the hive, that insects are not dead and inanimate state in which its beauties labours and exertions of the BEE we are provided deficient in the senses of seeing and hearing, lately lay concealed, or from the grovelling rep- with stores of honey and wax;—the seemingly wherever the organs may be situated. The tile which on the cabbage leaf partook voracious-contemptible little Silk-Worm presents us, it manner of respiration is different in insects from the Caterpillar to the sleeping other animals; they breathe through porces placed other dainties! in the sides of their bodies, and this also fits them If any thing were wanting to prove the wise costly raiment -From the Cantharis come the for that remarkable peculiarity of living in sepa- disposition of the parts and appetites of animals Spanish Flies, so useful in blisters—the Kernes rate parts. In the composition of insects no to their various situations and habits, here we is also valuable for medicinal purposes -- and the

fied inte flesh and bones, norves and membranes. in some by a membraneous or muscular skin, structure and taste both undergo an alteration How conspicuous, and yet how admirable are and in others by a crustaceous or horny cover- when its sphere of action and propunsities beand motion as to nourish and preserve the six, others eight, while the number of lenses in for such a blood thirsty animal; the nails of doed.

for seeing minute objects nigh at hand, but from of a Louse, need not be told that it is a blood the smallness and convexity of their lensis, it is sucker. The legs of the Locust and of the Instead therefore of having the presumption to stigmatize in the most remote degree, this particular order of the creatures of the Almighty as affording evidences of imperfection, let us nished them with those projecting horns or feel-stronger than the mule, to anable her to survive rather, from similar considerations, adopt the ers with which they seem to grope as they ad the rigour of winter,—and the strong hairy leg rather, from similar considerations, adopt the words of the more judicious Swammeraan; and the strong hairy leg vance. Insects are also distinguished by the of the Ant are no less well contrived to assay the nature and anatomy of the smallest as well as the largest animals, I cannot help allowing the least an equal, or perhaps a superior ing the least an equal, or perhaps a superior degree of dignity. If while we dissect with care fourteen, sixteen, and even a great many more their least on such animals or varietable substantial to the fourteen, sixteen, and even a great many more their least on such animals or varietable substantial to the fourteen, sixteen, and even a great many more their least on such animal or varietable substantial. fourteen, sixteen, and even a great many more their eggs on such animal or vegetable substate The pulpi are those bitle instruments fixed to ces, as furnish a proper and plentiful supply of the mouth of some insects, which seem to be in the worms or caterpillars, as soone tended to serve the purpose of arms, for they cover all these parts arranged in the least in the employ them to bring food to their mouths, and the Chrysalis or inactive state, select the mer same regular manner."And sum up the dispute in the condition of their mouths, and the Chrysalis or inactive state, select the mer than the condition of their mouths. the words of another naturalist. Of this dispute it keep it steady when enting. Some insects are proper situations and modes of concealment the words of another naturalist. Of this eispate it furnished with stings for defence, or to assist and that others, whose only metamorphosis constitution of the state of the defence of the state of the defence of the state of the defence of the state of the state of the defence of the state of the defence of the state of the st and such surprising art is discovered in the mesituations for injecting their eggs into the most convenient selves while undergoing the change by an enter
chanism of the body of every creature, that it is winged insects have a proboscis or trunk, which body although not so large, is as wonderfully contrived It is impossible in the compass of a few pages as that of the Blephant, and serves the purposes forth all of them in bands;" while the solitan

many of the insect tribe possess is amuzing — patience the entanglement of the fly.—Time A flea will draw a chain 100 times heavier than will not permit me to dwell on the geometrical terious and numerous order of beings by which itself; and the velocity of a mite, in proportion precision and mathematical exactness, we it is most distinguished from the others, and in to its size, is said to outstrip that of a race horse! which Bees form their combs; the wonderful is -With regard to sex there is one thing very genuity and contrivance of the Wasp's nest, a remarkable in this order, viz. that the Bees, the the order and regularity observed in the con Wasps, and Ants furnish an example of a species struction of the Ant-hill, as well as the prudent that belong to neither sex; and so are called and foresight which the whole of these evinces neuters;-these, however, are not without their their labours and pursuits; these, and the sings uses; and the affection they evince for the help-lar but convenient attitude which the Water-t less little creatures left to their caro, might serve assumes in swimming on his back, to enable as a lesson to those who are intrusted with the him the better to lay hold of his food, the under

The last thing I shall mention in this general

vances and Divine art it may be again diversi-thones are made use of, but this defect is supplied have it in the instance of the Butterfly, whose

crotchets of the Horse-fly, as well as its tenacity of life, evince that it is apt to be disturbed in it The eyes of insects are admirably adopted banquets; whoever attentively considers the form

"The Locusts have no king, yet go the spider having no wings to go in pursuit of be The degree of strength and agility which proy weaveth to herself a web, and watches wat side of plants which grow on the water, I ca only mention, and must proceed to consider; few of the

USES OF INSECTS.

From the number of animals in the different elements and regions of existence, which pm

Comment furnishes us with a rich and beautiful die .- The weaders accomplished by the united exertions of the Boos, the Wasps, and the Ants, show what can be done by brethren dwelling together in unity.-The watchfulness of the Spider after she has woven her web, demonstrates the necessity of not folding our hands Ye storms adore your Master's hand, for slumber just at the time we have completed our proparations for activity; and to the Ant the sluggard is sent to learn a lesson of prudence and foresight.

"These emmats, how little they are in our eyes! We tread them to dust, and a troop of thum dies Without our regard or concern: Yet, as wise as we are, if we went to their school, There's many a sluggard, and many a fool, A lesson of wisdom might learn!

Evon the metamorphosis of insects, or the progressive change they undergo from an inferior to a more perfect order of being, ought not to pass before the eye of reason without its improvement - Does not this tend to remind us that here we have no continuing city, that this is not our place of abode; that when we he down in our sleeping and inactive state in the dust, it is not there forever to remain, but that we may immortality; after which, with renovated powers, we shall burst the barriers of the tomb, and, in sighing shall forever flee away, and Death be swallowed up in victory.

POETRY.

Tire, Air., Eastii, and SEA, praise ye the Lord

DR. WATT'S LYRICS.

... the thou great foot-stool of our God Who reigns on high; thou fruitful source fall our rannent, life and food, Our house, our parent and nurse. Mighty stage of mortal scenes, Drest with strong and gay machines, Hung with golden lamps around, And flow'ry carpets spread the ground, hou bulky globe, prodigious mass, hat hangs unpillar'd in an empty space. hile thy unwieldy weight rests on the feeble air, less that Almighty word that fix'd and holds thee there.

ire, thou swift herald of his face, -Whose glorious rage at his command, Levels a palace with the sand, landing the lefty spires in ruin with the base, e heav'nly flames that singe the air, Artillery of a jealous God. right arrows that his sounding quivers bear, Toscatter deaths abroad. ightnings, adore the Sovereign arm that flings m vengeance, and your fires, upon the heads of Kings Ш

hon vital element, the air, Whose boundless magazines of breath or fainting flame of life repair. And save the bubble, man, from the cold arms of death: ad ye whose vital moisture yields Life's purple stream, and fresh supply weet waters, wandring thro' the flow'ry fields, Or dropping from the sky; -nless the Power whose all-sufficient name. or needs your aid to build, or to support our frame.

ow the rude air, with noisy force

Beats up and swells the angry sea. They jois to make our lives a proy, And sweep the sailor's hopes away, Vain hopes, to reach their kindred and the abores! Lo, the wild sees and surging waves, Gape indeous in a thousand graves; Bo still ye floods, and know your bounds of sand, The winds are in his fist, the waves at his command.

From the eternal emptiness, His fruitful word by socret springs Drew the whole harmony of things, That form this noble universe: Old Nothing knew his pow'rful hand, Scarce had he spoke his full command, Fire, Air, and Easth, and Sea, heard the creating call And leapt from empty Nothing to this beauteous All, And still they dance, and still obey, The orders they recent d the Great Creation day.

THE ACCOMPLISHED YOUTH. ----

THE EMPLOYMENT OF TIME.

and of God. Remember always, that the years which the Lord conferred upon you " now pass over your heads, leave permanent memories behind them. From your thoughtless minds they may escape; but they remain in the remembrance of God. They form an important part of the register of your life. They will acreafter bear testimony, either for or against you, at that day when, for all your actions, brail then said, "O Muhammed, it is proper that but particularly for the employments of youth, you my putton should pray before he goes." Muruust give an account to God. Whether your future hammed prayed,—and when the prophet had course is destined to be long or short, after this manner it should commence; and, if it continue to be thus conducted, its conclusion, at what time soover it arrives will not be inglorious or unhappy. Blair.

MISCELLANY.

EXTRACT FROM THE MEHOMETAN STORY

Of the Moon's dividing itself into two.

Now the champion proceeded in all his pride to the village of Hatijah, * showing by his gestures that he cared for nobody, and that he was not disposed to treat any one with the least respect. When the champion approached the compound of Hatijah, she was amusing herself in the court-yard of her house. She saw a man on horseback, who seemed to wish to enter the enclosure; he appeared like a during fellow, who felt not the least respect for any one. Hatijah entered the house, and addressed Muham med, saying, " O my patron, I have just seen a man of enormous size, who appears to care for nobody; he is mounted on a horse and wishes to enter our enclosure in all his pride." Muhammed quickly went to the door of his house. to observe the actions of this champion. By this medans, that the resurrection will be attended time the champion had reached the sence of the with an intolerable noise and confusion; hence compound, and was seen by Muhammed whilst standing at the door. When his champion saw

"Muhammed's first wife.

Muhammed, he instantly alighted from his horse and running to his Majesty Muhammed, prostrated himself at his feet. The prophet said, "O champion, what is your business with me?"
The champion replied, "O my patron, I am sent by king Januwamalik to invite you to the plain of Abutalib 11 His Majesty Muhammed said, "O messenger, return to your king; I will come immediately." The messenger then took leave and returned. At that instant Jibrail (Gabriel) brought an order to Muhamined to this effect: "O Muhammed, go than to king Januwamalik, and do whatever he requires of thee, that he may become a convert to the religion of the faithful ". Jibrail having delivered his message to Muliammed, God gave command to him and Michail, (Michael,) saying, " Go both of you, and take all the angels with you down to the earth, to my beloved," who is about to proceed to the plain of Abutulib without any attendants; go, therefore, attend on my boloved, Redeeming your time from those dangerous wastes of for it is for this reason, that I commund you all it which lead our youth into every disorder and confu- to descend to the earth." Now both Jibrail sion in society, seek to fill it with employment which and Mikail descended, bringing with them so-you may review with satisfaction. The acquisition of venty thousand angels, arrayed in all their knowledge is one of the most hopourable accurations. is not there forever to remain, but that we may knowledge is one of the most honourable occupations robes; each one within proper attributes, and put on incorruption, and this mortal shall put on is connected with many accomplishments and many virtues. But though your train of life should not lead to Michail came to Muhammed and saluted him, study, a course of education always furnishes proper and he returned their salutation. Jibrail and the strength of our Redeemer, ascend to a more existed sphere, where, transformed into his glotious image, we shall be like him, for we shall the marks of virtue. Think not, that any affluence of Lord has bestoved upon our patron; that he may be either even as he is; where all sorrow and the divers of application of rank, exempts you from Lord has bestoved upon our patron that he may have provided to the same and th the duties of application and industry. Industry is the have majesty and glory O our patron, lift law of our being; it is the domand of nature, of reason up your head, and see how great a favour

Muhammed raised his head and looked upwards, and beheld all the angels coming, arrayed in all their robes, each one with his proper attributes, and each one in his proper form. Jihammed prayed, and when the prophet had concluded his prayer, he descended and procceded, attended by Jibrail and Mikail, to the plain of Abutulib. Immediately the shouts and acclamations of the angels were heard, the sound of which was exceedingly loud and strong. Tidings were brought to king Januwamalik, and the people who were with him on the plain. The earth shock, and Januwamalik inquired of one of his ministers, saying, "O my minister, what noise is this? it is as though the last day was come." His minister replied, "O my Lord, king of the world, Muhammed the orplian is coming, arended by all the angels. Tho eyes of all the people were now turned towards the high road; at the same time the sun was obscared, as by a cloud, owing to the multitude of angels which attended Muhammed, and, in an instant after, it shone bright again, just as though it had but newly risen. The prophet now made his appearance, and all who beliefd him appronching the plain were greatly astonished, while the whele family of Hashim, namely, Abutalih, and others, went to receive him.

* Muhammed.

† It is an article of belief among the Muhamthe Malay writers, when wishing to describe a great uproar, the noise of a battle for instance. frequently use the phrase "Seperti akan kiyumat," like the resurrection.

When king Januwamalik saw that Muhammed was come, he ordered a chair to be brought for him; and Muhammed, having reached the spot, sat down on the chair. The king then addressed him, saying, "O Muhammed, I have been informed by all the great and rich men of the city of Mekkah, that you have declared yourself the prophet of the last times, and the patron of all the phrophets; but what miracles & aigns are you able to produce, in proof of your being the prophet of the last times? Now, as such universal pleasure, may be considered a vary so little, and the weather is so uniform, to the prophet Noh, (Noah,) angels fled away minor planet: its light proceeding from the sun, this advantage is not needed, it is not grante with his ark into the air; this was his sign. The and being merely reflected to us from its surface. At the poles, the full moor is not seen in the prophet Ibrahim (Abraham) was thrown into the If it shined by a native light, it would not wax summer; but in their winter they have her fire by Namrud, (Nimrod,) but was not burnt; and wane; but, like the great source of light, ap ways before and after the full, for fourteen this was his sign. When the prophet Da ud pear always full. Its diameter is found to be our days and nights, without intermission: sop (David) prayed, all the trees of the forest pros. about 2180 miles, and its distance from the vident, so infinitely kind is our conniscient Greath 240 000 miles. trated themselves with him; this was his sign | earth 240.000 miles. As to the prophet Soleiman, (Solomon,) his ring was his sign. And with respect to the prophet round its own axis, and performing a monthly sideration. The heavenly bodies, while it Isu, (Jesus,) dead hodies conversed with him; revolution round our planet, while the latter perform their revolutions in such ever enduring this was his sign. Thus all the former prophets had each one his peculiar sign, and miracle, wery remarkable, that its revolutions round its selves, but benefit each other. How universely it was known that he had become a prophet; what therefore is your sign? all the great men of the city of Mckkah have are few: a day and night there being equal to a the tides that diversify and refresh the sea, told me, that Muhammed the orphan has declared himself the chief of all the property where then is your sign? show it before the chief of all the property where then is your sign? show it before the chief of all the property where then is your sign? show it before the chief of all the property where then is your sign? show it before the chief of all the property where then is your sign? show it before the chief of all the property where the chief of the chief of all the property where the chie us all; and if it be not as you say, I am prepared pears to travel through the twelve signs, which flow, and dominished at each ebbing of the se to disgrace you? Muhammed then address period is called a periodical month; but 29 days, the changes, then, that we observe, must sed his majesty and all present, saying, "O 12 hours, and 44 minutes, clapse between one agreeably to some regulated actions in gentlemen, have you in a beard that I have cerule moon and the next, which constitute the waters: while, therefore, the waters rise at tainly been raised upove all the prophets, and synodical month. If the earth, as was formerly part of the globe, they must be proportion that I am the consummation of all the prophets, believed, and as the uninformed now sometimes depressed at another. By the rotation of and the chief of all the prophets, and that I am imagine, was stationary these distinctions would earth on its axis, each part of its surface commissioned to establish the religion of the not exist; but as the earth is proceeding in its which the moon is vertical, is presented to faithful, and to show great miracles, and that I orbit, while the moon performs its journey, the in the day to its attraction; and honce the am beloved of the true God?" King Januwama llatter will overtake the former in a more advance, and reflux of the sea twice occur. Altho lik replied, "O Muhammed, it is at this time ed part of its course as the minute hand of a this influence is greatest where the moon is the request of all the great men in the city of watch does not cross the hour index, till it has treat, yet it is not confined to such space, Mckkah, that I should command you to call the described more than an entire revolution. moon to you, and if the moon come at your call, and at the same time pronounce to you the conone half of the moon at the same time; of this rection. These tides vary in their time
fession of faith with a loud voice, so that this illumination, different degrees are visible to us, return, and in their height, both at the whole multitude, and all my relations, both great according to its varying position with the sun place and at different parts of the world, acand small, and of all ranks, may hear the voice and the earth. As it revolves round its axes in ding as the moon is in various parts of its o of the moon; and if after the moon has pro-the same time in which it performs a revolution and nearer or further from the earth, owing nounced the confession of faith you shall com-mand it to enter the left sleeve of your garment, the same side to us. A white ball, suspended principally effected by the moon, yet the and come out at the right sleeve, and if then the by a thread, and moved round a candle, would also assists in the admirable operation, but, f moon shall divide itself into two parts, one part illustrate to our young friends the nature of the its distance, in a far less degree. The general towards the east, and the other towards the phases of the moon. If the ball be immediately Newton found, that where the former raised west, and afterwards the two parts shall meet between the observer and the light, its illuminates ten feet, the latter raised them only. again in the sky and the moon appear just as nated half will be towards the candle, and its. At new and full moon these influences are a before, without the least defect;—if all these dark side will represent the new moon; passing bined, and their height is twelve feet. things shall come to pass according to our re- it gently on, the enlightened part will soon be [To be concluded in our next.] quest to you, then all the great men on the plain seen, & exhibit the appearance of the moon in its ENIGMA. will receive your religion, and confess that you first quarter; as it proceeds, still more of its illuare indeed the prophet of the last times."

Remainder in our next Number.

alik says, "If he (Muhammed) can produce half of which has already been made, the wanany miracle in support of his claims, we will all ing moon will be better understood. It is worbelieve; but if not, I have ready the urine of thy of remark that the hemisphere of the muon camels and elephants, which I will order to be facing the earth, can never be in darkness, besprinkled on his head, after which, I will rub ing enlightened by the reflecting rays from our him over with charcoal." This was of course planet, when turned from the solar beams. the disgrace intended.

PHILOSOPHICAL RRFLECTIONS.

THE MOON. O God supreme, we thank thee for the Sun,

Wondrous source of light and heat refulgent! For the pale Moon, that less reflected light. Whose silver bram- do often light our steps Through the dark empire of returning night; And sooth the mind to sweet tranquility. In it a world we see, where mountains rise, And valleys sink, mere spots too often deam'd: Where, doubtless too, fit boings dwell, grateful To see the solar rays the Earth reflects, To cheer their long and lonely night.

makes its annual journey round the sun. It is harmony, confine not their influences to the

minated face will be evident, tall, when in a line with the beholder, on the opposite side of the candle, its whole face is light, and the full *In a former part of the story, king Januwam moon is illustrated; finishing the circuit, the

> It deserves particular attention, that the moon, during the week in which she is full, about the time of harvest, rises sooner after setting than at any other period of the year in which she is in the same state, arising from her orbit lying

less oblique to the horizon at this sear 3. August and September, the sun appears in t' nigns Virgo and Libra; consequently, when the moon is full, it must be in the opposite sign Pisces and Aries. There are, therefore, tr full moons thus distinguished, -the one wh tho sun is in Virgo and Libra; the other wh he is in Pisces and Aries; the latter is less t markable than the former, and is called the hu This luminary, the sight of which diffuses ter's moon. At the equator, when the seaso

The mutual dependence of one part of cr Like the planets it has its motions revolving tion on another, is an interesting improving ci widely extended in a diminishing degree, ac.

[To be concluded in our next.]

On the glittering wings of the morn I arose from the deep rolling sea, The bright azure of heaven to adorn, And the early lark carolled to me. Amidst regions etheroal I strayed, While the sunheams that gilded my robe Were chasing with smiles the deep shade. With which night had enveloped the globe. When the sun would in splendour arise O'er the vallies rejoicing and green, I spread a thin voil o'er the skies, And his brightness no longer was seen. Soon gloomy and dark I appeared, My voice echoed loud through the heaven. The traveller listened and foared, By my pitilese fury still driven. Then in tempest, I vanished away To the ocean, wild place of my birth, What am I? Philosopers say, Ye men of renown upon earthi.