plement the lecture by collateral reading, or test for himself in the laboratory statements which he has heard in the lecture.

Now, secondly, as to laboratory work and practical exercises. The development of personal laboratory work and research in every student is entirely, as I have suid, the product of the nineteenth century, more especially the result of the gradual importance which the natural sciences acquired in the University curriculum. Its purpose is twofold: First, to demonstrate a certain phenomenon to the student directly; and, secondly, to cultivate exact methods of reasoning. Incidentally, also, to give him a certain training in manual dexterity.

In a greater sense, the purpose of laboratory work and exercises is therefore to guide the student in scientific thought. While the lectures introduce a subject, show its evolution, the meaning of its concepts and its present position, the individual laboratory experience is the first step to the student's independent reasoning. The laborntory, therefore, has ut times been referred to as the students' nursery. Very important in this connection is the necessity of correct observation and accuracy of execution. The laboratory is especially the place where individual accuracy is developed, where results are recorded, as they actually occur and not according to what is expected, und where each step must be brought into definite relation as to cause and sequence. In this way the student becomes acquainted with his own power, his own limitations, and acquires the assurance given by He is no longer taught, but teaches himself. The value of facts. laboratory work is, therefore, plain, but it contains the same element of danger which the passive heaving of a lecture contains. The student is too apt to follow laboratory practice in a routine mechanical way, is often more anxious for the form than for the substance and apt to develop his memory for a certain number of methods and reactions rather than devote his efforts to the main purpose of the Consequently, he forgets much of what he has learned just as work. soon as he has left the laboratory, and fails to bring into execution