Berlin Tuesday Nov 4th 1845.

Dear Bill

I wrote to Eliza and George by the Steamer of the 4th of this month (today) and as you will probably have seen or heard of my letter before this reaches you I shall not need to go over the same ground again. I returned from my summers tour on the 10th of October and found your letter here as well as a package [illegible] account of Pages new electromagnetic engine which interested me very much. I have even thoughts of translating it [illegible] now comfortably settled in Rose's laboratory working every day from 9 till 6 with an hour between 1 and 2 for dinner and digestion. I have 2 very good and well furnished rooms nearly a mile from the laboratory, so that I have something of a walk every day. In the evenings I read and study at home or make calls on my German acquaintances who are now pretty numerous. On the whole I am well content though I have no time to lie in lectures and not a great deal for study. The advantages of a thorough knowledge of analysis are so great that I am willing to forego much else for the obtaining it and I have now the best opportunities which can be had. I have just received my Balance from the maker Bertling. It is a beautiful piece of workmanship complete in every respect, and will weigh to 1/4 of a Milligramme or between 3 and 4 thousandths of a grain which is more than sufficiently accurate for all chemical purposes. It cost together with the weights 78 thalers Prussian money or about $55.00. Almost all the German chemists use balances of the same description and make also by Bertling. There are 3 other students in the laboratory beside myself. Fortunately for me they are Germans and I have not the pleasure of hearing modern Greek spoken by the hour together as I had when with Rammelsberg last Spring and Summer. I think I told you that my only fellow students were 3 Greeks. They were good fellows enough in their way but clumsy analysts and not neat in their work. They had moreover this very bad and disagreeable habit of speaking Greek together, though all three spoke German perfectly when they chose. I hope you will recall and extend your knowledge of German: it is now indispensible to a scientific man. Except in Mathematics (where the French beat them hollow) the Germans have gone farther and deeper in every branch of science than any other nation, and I have been surprised to find so many elaborate treatises on almost every branch of physics & chemistry. A valuable work has just appeared called Quellen Literatur der Organischen Chemie by Wolff, containing a catalogue or rather list of the titles of all memoirs on organic chemistry which have been published in France and Germany since the last quarter of the last century. It is an octavo of no great size, closely printed and quite complete for French and German memoirs but very incomplete for English ones. It is a great advantage to be able to know at a glance what has been done and what remains to be done. Rose is at work on a new edition of his work (do not mention this) but it will not be ready for a year or two. If I have serious thoughts of translating it and have spoken with him on the subject, he is willing enough but does not like to be forced on with his work as he thinks he should be, if I were to begin translating at once. I shall write to Wiley & Putnam in London as soon as he has

000131