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### Short Essay

Charles Babbage was the inventor of Babbage's calculating engine. Babbage was known as an inventor and an English mathematician. Babbage was also known as the first computer pioneer. The difference engine was created by Charles Babbage as well which focused on polynomials, the relationship between several variables, such as range and air pressure. He created this machine to have accurate results and to be error free.

Daughter of a poet Ada Lovelace, played an important role in the development of Charles Babbage's invention. Lovelace was a guest at Babbage's social event and was able to view his invention which she called the thinking machine. Babbage petitioned to complete his invention through the government in 1823 and was awarded with the funds to continue working on his projects. The machines in Babbage's time period were unable to produce certain components with the right amount of accuracy that his machine required. Therefore, he moved on from the difference engine and began to work on the analytical engine instead.

This new analytical engine contained a central processing unit known as the mill, in the past and memory, known as the store in the past. The machine was created to take away human error from calculations of printed mathematical results. Ada Lovelace helped Babbage to promote his machine and she translated Babbage's article 29 sketch of the analytical engine. Article 29 is known as the first publication of computer programming in the world. Ada Lovelace also created notes which explained an algorithm of the device. Lovelace then became known as the first computer programmer. Unfortunately Lovelace died from illness at a young age, and Babbage died in 1871. However, through his notes and drawings for the difference engine 2, in 1985 Doran Swade was able to complete Babbage's work.