When debugging the problem in a GUI, the programmer can try to skip some user interaction from the original problem description and check if remaining actions are sufficient for bugs to appear..  
Text editors were also developed that allowed changes and corrections to be made much more easily than with punched cards.  
One approach popular for requirements analysis is Use Case analysis.  
Scripting and breakpointing is also part of this process.  
However, Charles Babbage had already written his first program for the Analytical Engine in 1837.  
  
 Computer programming or coding is the composition of sequences of instructions, called programs, that computers can follow to perform tasks.  
In 1801, the Jacquard loom could produce entirely different weaves by changing the "program" – a series of pasteboard cards with holes punched in them.  
 Following a consistent programming style often helps readability.  
Sometimes software development is known as software engineering, especially when it employs formal methods or follows an engineering design process.  
 Readability is important because programmers spend the majority of their time reading, trying to understand, reusing and modifying existing source code, rather than writing new source code.  
As early as the 9th century, a programmable music sequencer was invented by the Persian Banu Musa brothers, who described an automated mechanical flute player in the Book of Ingenious Devices.  
 After the bug is reproduced, the input of the program may need to be simplified to make it easier to debug.  
 Implementation techniques include imperative languages (object-oriented or procedural), functional languages, and logic languages.  
 A similar technique used for database design is Entity-Relationship Modeling (ER Modeling).  
However, with the concept of the stored-program computer introduced in 1949, both programs and data were stored and manipulated in the same way in computer memory.