Auxiliary tasks accompanying and related to programming include analyzing requirements, testing, debugging (investigating and fixing problems), implementation of build systems, and management of derived artifacts, such as programs' machine code. Programming languages are essential for software development. Many factors, having little or nothing to do with the ability of the computer to efficiently compile and execute the code, contribute to readability. One approach popular for requirements analysis is Use Case analysis. For example, COBOL is still strong in corporate data centers often on large mainframe computers, Fortran in engineering applications, scripting languages in Web development, and C in embedded software. However, because an assembly language is little more than a different notation for a machine language, two machines with different instruction sets also have different assembly languages. Provided the functions in a library follow the appropriate run-time conventions (e.g., method of passing arguments), then these functions may be written in any other language. A study found that a few simple readability transformations made code shorter and drastically reduced the time to understand it. Later a control panel (plug board) added to his 1906 Type I Tabulator allowed it to be programmed for different jobs, and by the late 1940s, unit record equipment such as the IBM 602 and IBM 604, were programmed by control panels in a similar way, as were the first electronic computers. It affects the aspects of quality above, including portability, usability and most importantly maintainability. They are the building blocks for all software, from the simplest applications to the most sophisticated ones. Compilers harnessed the power of computers to make programming easier by allowing programmers to specify calculations by entering a formula using infix notation. One approach popular for requirements analysis is Use Case analysis. Programming languages are essential for software development. Various visual programming languages have also been developed with the intent to resolve readability concerns by adopting non-traditional approaches to code structure and display. In 1206, the Arab engineer Al-Jazari invented a programmable drum machine where a musical mechanical automaton could be made to play different rhythms and drum patterns, via pegs and cams. For example, when a bug in a compiler can make it crash when parsing some large source file, a simplification of the test case that results in only few lines from the original source file can be sufficient to reproduce the same crash. However, because an assembly language is little more than a different notation for a machine language, two machines with different instruction sets also have different assembly languages. However, Charles Babbage had already written his first program for the Analytical Engine in 1837. High-level languages made the process of developing a program simpler and more understandable, and less bound to the underlying hardware. Some languages are more prone to some kinds of faults because their specification does not require compilers to perform as much checking as other languages. Computer programmers are those who write computer software. The Unified Modeling Language (UML) is a notation used for both the OOAD and MDA. Use of a static code analysis tool can help detect some possible problems.