Normally the first step in debugging is to attempt to reproduce the problem. Code-breaking algorithms have also existed for centuries. Proficient programming usually requires expertise in several different subjects, including knowledge of the application domain, details of programming languages and generic code libraries, specialized algorithms, and formal logic. The choice of language used is subject to many considerations, such as company policy, suitability to task, availability of third-party packages, or individual preference. One approach popular for requirements analysis is Use Case analysis. Techniques like Code refactoring can enhance readability. In 1801, the Jacquard loom could produce entirely different weaves by changing the "program" – a series of pasteboard cards with holes punched in them. It is usually easier to code in "high-level" languages than in "low-level" ones. Compilers harnessed the power of computers to make programming easier by allowing programmers to specify calculations by entering a formula using infix notation. Computer programming or coding is the composition of sequences of instructions, called programs, that computers can follow to perform tasks. After the bug is reproduced, the input of the program may need to be simplified to make it easier to debug. Popular modeling techniques include Object-Oriented Analysis and Design (OOAD) and Model-Driven Architecture (MDA). Sometimes software development is known as software engineering, especially when it employs formal methods or follows an engineering design process. He gave the first description of cryptanalysis by frequency analysis, the earliest code-breaking algorithm. It involves designing and implementing algorithms, step-by-step specifications of procedures, by writing code in one or more programming languages. Compilers harnessed the power of computers to make programming easier by allowing programmers to specify calculations by entering a formula using infix notation. Integrated development environments (IDEs) aim to integrate all such help. However, Charles Babbage had already written his first program for the Analytical Engine in 1837. Methods of measuring programming language popularity include: counting the number of job advertisements that mention the language, the number of books sold and courses teaching the language (this overestimates the importance of newer languages), and estimates of the number of existing lines of code written in the language (this underestimates the number of users of business languages such as COBOL). 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. After the bug is reproduced, the input of the program may need to be simplified to make it easier to debug. 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. It is very difficult to determine what are the most popular modern programming languages. A similar technique used for database design is Entity-Relationship Modeling (ER Modeling). The choice of language used is subject to many considerations, such as company policy, suitability to task, availability of third-party packages, or individual preference.