**What Is Software Engineering And Why Is It Useful ?**  
***Software Engineering***  
Software engineering involves the design and development of many types of software, including software for operating systems and network distribution, and software for compilers (which convert programs for execution on a computer). In programming, or coding, software engineers instruct a computer, line by line, how to perform a desired function. Software engineers must possess strong programming skills, but are often more concerned with developing algorithms and analyzing and solving programming problems than with actually writing code.

Typically software engineers, working in applications or systems development, analyze first the needs of the user and then design, construct, test, and maintain computer applications software or systems to meet these needs.

***Why Is Software Engineering Useful?***

- it brings about the application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software  
- it makes codes easy to maintain.