**WHAT IS SOFTWARE ENGINEERING AND WHY IS IT USEFUL?**

Software engineering is an engineering discipline that is concerned with all aspects of software production. It is a broad term for all aspects the practice of computer programming.

It is a field of engineering, for designing and writing programs for computers and other electronic devices.

Software engineering can also be defined as the establishment and use of sound engineering principles in order to economically obtain software that is reliable and works effectively on real machines.

It is relatively a new area of engineering, but the scope of software engineering is extremely broad.

**IT'S USEFULNESS**

* Helps to minimize software cost by planning and reducing the codes that aren't required. Thereby decreases time spent and improving productivity.
* Produces reliable software because testing and maintenance is provided.
* Software engineers create software that we use every day, such as, Microsoft office, e-mail, games, or anything that involves the use of computer systems or mobile system software's.
* Creates job opportunities and possibility of advancement throughout one's career.
* Almost all the equipment used are based on software be it a digital watch, a small phone, a laptop, a computer or even a television. Thereby proving a better and great career option.
* It reduces complexity. Software engineering has a great solution to decrease the complexity of any projects by dividing big problems into several small problems and solve them one by one to get the final solution.
* In absence of software engineers, requirements collection can be incomplete or not deep enough.