1.What is software? What is software engineering?

Software is considered to be collection of executable programming code, associated libraries and documentations. Software, when made for a specific requirement is called software product. Engineering on the other hand, is all about developing products, using well-defined, scientific principles and methods.

2.Explain types of software

The two main categories of software are [application](https://www.techtarget.com/searchsoftwarequality/definition/application) software and [system software](https://www.techtarget.com/whatis/definition/system-software). An application is software that fulfills a specific need or performs tasks. System software is designed to run a computer's hardware and provides a platform for applications to run on top of.

3.What is SDLC? Explain each phase of SDLC

Purpose of SDLC is to deliver a high-quality product which is as per the customer's requirement. SDLC has defined its phases as, Requirement gathering, Designing, Coding, Testing, and Maintenance. It is important to adhere to the phases to provide the Product in a systematic manner.

4.What is DFD?

A data flow diagram (DFD) is a graphical or visual representation using a standardized set of symbols and notations to describe a business's operations through data movement. They are often elements of a formal methodology such as Structured Systems Analysis and Design Method (SSADM).

5.What is Flow chart?

Flowcharts are diagrams that show the steps in a process. Basic flowcharts are easy to create and, because the shapes are simple and visual, they are easy to understand. Note: You can also automatically create a basic flow chart from data by using a Data Visualizer diagram in Visio.