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**Assignment Module 1 (SDLC)**

- What is Software?

**Ans.**

Software is a set or series of instructions to acquire inputs and to manipulate them to produce the desired outputs in terms of functions and performance as determined by the user of the software. For ex :- MS Word, Excel, etc.

- What are the types of applications?

**Ans.**

1. Freeware
  - available free of cost
  - can be downloaded for from internet easily
2. Open-Source
  - available with source code
  - it can either be free or chargeable
  - users can easily modify and distribute
3. Shareware
  - distributed freely to users on a fixed trial basis, with a time limit after which user is asked to pay, to continue using the software.
4. Packaged Software
  - it is a package of multiple applications or modules that work together to meet various goals objectives.
5. Custom Software
  - it is developed to meet the requirements of a particular organization or an individual user.
  - can be modified or changed

- What is programming?

**Ans.**

It is a process of providing a list of instructions that is executed by the computer to accomplish a particular task. It involves activities such as analysis, generating algorithms, simulations, etc. This is achieved by programming languages, designed to communicate instructions to a machine. It is a set of words, symbols and codes that enables users to communicate with computers.

- What is Python?

**Ans.**

- It is a general-purpose interpreted, interactive, object oriented and high-level programming language.
- Used for web development, scientific and mathematical application development, machine learning, data science, AI, etc.
- Provides a large library support
- Strong emphasis on code reliability and simplicity