Module - 1 (SDLC)

Q.1 What is software?

- Software is a kind of program that enable a user to perform some specific task or used to operate a computer.
- It directs all the peripheral devices on the computer system what to do and how to perform a task.
- PC software plays the role of mediator between the user and computer hardware. Without software, a user can't perform any task on a digital computer.
- Software can be further divide into mainly two parts
 Application software and System software.
- Application software:
- Application software also called end-user programs or merely an application.
- The end-user uses applications software for a specific purpose. It programmed for simple as well as

complex tasks.

 Application software can be used by the user to complete specific tasks, such as creating word processors documents, spreadsheets, presentations, graphics, CAD/CAM, sending the email, etc.

• System Software:

- System software provides a platform to run a computer's hardware and computer application to utilize system recources and solve their computation problem.
- It is written in low-level language, so it can easily interact with hardware with the primary level.
- The best known example of system software is the operating system (OS)

Q.2 What are the types of Applications?

General Applications:

Word processing software

- Graphics Software
- Spreadsheet Software
- Presentation Software
- Web Browser
- Multimedia Software

Bussiness Applications:

- Customer Relationship Management Application software
- Enterprice Resource Planning Application Software
- Project Management Application Software
- Database
- Educational Software

Q.3 What is Programming?

 Programming is an exercie or practice that boost our logical thinking and improves a problem-solving skill, It teaches us how to accomplish a task with the help of a computer program or software.

- Programming is a task to implement a solution to a problem in the form of computer language.
- We can also define the term programming as it is the process that models or structure the set of instructions that instruct the machine how to perform a task and what to perform.
- It can be done using a variety of programming languages such as:
- C
- C++
- C#
- Python
- Java, etc.

Q.4 What is Python?

Pytthon is an interpreted , object-oriented,

high-level programming language with dynamic semantics.

- Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development.
- Python supports modules and packages, which encourages program modularity and code re-use.
- The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

Features of python:

- Clean syntax plus high-level data types
- Uses white-space to delimit blocks
- Variables do not need declaration

Python Productivity:

- Reduced development time
- Improved program maintanance

• Less training