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MODULE-1 [SDLC]

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Q-1. What is Software?

Software is a set of instructions, data and programs used to operate devices and execute specific tasks. Software is a set of command that tells computer what to do or how to perform specific task. Software allow user to simplify the tasks in the system.

Q-2. What are the types of Applications?

There are many types of applications:

- 1.word processing software
- 2.Spreadsheet software
- 3.Presentation Software
- 4.Web Browser
- 5.Email Clients
- 6.Media Players
- 7.Graphics and Photo Editing Software
- 8.Database management System
- 9.Antivirus Software
- 10.Mobile apps
- 11.Project Management Software
- 12.Customer Relationship Management

Q-3. What is programming?

The process of writing and designing a set of instructions (code) that a computer can use to carry out a certain task or address a certain issue is known as programming. It entails speaking with a computer

and giving it the commands, it needs to perform desired tasks via the use of programming languages. Writing, testing, and maintaining these instructions is the job of programmers, also known as software developers, who strive to provide effective and useful software applications. In computer science, programming is a fundamental ability that is necessary for creating a variety of software, from straightforward scripts to intricate programs.

Q-4. What is Python?

Python is a general-purpose, interpreted, high-level programming language that is well-known for being easy to read, straightforward, and adaptable. Python was developed by Guido van Rossum and was originally made available to the software development community in 1991. Since, it has grown in popularity. It's simple, uncomplicated syntax prioritizes code readability and makes it simple to develop and comprehend.

Q-5. How memory is managed in Python?

Allocating and releasing memory to store program data while it is being executed is known as memory management in Python. Python efficiently manages memory by combining a number of techniques, balancing system performance with developer convenience.

1. Garbage Collection
2. Memory Pools
3. Memory Optimization Techniques

Q-6. What is the purpose of continue statement in python?

The continue statement's objective is to modify a loop's control flow in response to certain circumstances. Under certain circumstances, it enables the program to avoid particular statements within the loop without completely breaking out of it.

Q-7. what are negative indexes and why are they used?

Negative indexes in Python allow to access elements from the end of a sequence (such a list, tuple, or string) rather than the beginning. When we use a negative index, Python starts counting from the end of the sequence.

1. To accessing the end of Sequences
2. Looping in reverse