**Python Assignment**

**Module-1(SDLC)**

**Q-1) What is Software?**

**Ans:** Software is a set of instructions, data or programs used to operate computers and execute specific tasks. It is the opposite of hardware, which describes the physical aspects of a computer. Software is a generic term used to refer to applications, scripts and programs that run on a device

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.

**Q-2) What is Python?**

**Ans:** Python 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, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. 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 distriuted.

**Q-3) What is Programming?**

**Ans:** In computer science fields, the word program characterizes what a computer actually does and this process is known as**programming**.

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**](https://www.javatpoint.com/c-programming-language-tutorial), [**C++**](https://www.javatpoint.com/cpp-tutorial), [**C#**](https://www.javatpoint.com/cpp-tutorial), [**Python**](https://www.javatpoint.com/python-tutorial), [**Java**](https://www.javatpoint.com/java-tutorial), etc.

**Q-4) What are the types of application?**

**Ans:** The most common type of software, application software is a computer software package that performs a specific function for a user, or in some cases, for another application. An application can be self-contained, or it can be a group of programs that run the application for the user.

Types of application software:

1. Web browsers.
2. Presentation software.
3. Spreadsheet software.
4. Graphic software.
5. Word processors.
6. Database software.
7. Multimedia software.
8. Education software.
9. Information software.