**Module – 1 (SDLC - Software development life cycle)**

* What is Software?
* **Software is a set of instructions, data or programs used to operate computers and execute specific tasks.**
* **What are the types of Applications?**
* **There are three types of applications like Native, Hybrid and Web.**
* **What is programming?**
* **Programming is the process of creating a set of instructions that tell a computer how to perform a task. Programming can be done using a variety of computer programming languages, such as JavaScript, Python, and C++.**
* **What is Python?**
* **Python is an interpreted, object-oriented, high-level programming language with dynamic semantics.**
* **Python is a computer programming language often used to build websites and software, automate tasks, and conduct data analysis.**

**Module – 2 (Fundamentals of python)**

* How memory is managed in Python?
* **Memory in Python is managed by Python private heap space. All Python objects and data structures are located in a private heap. This private heap is taken care of by Python Interpreter itself, and a programmer doesn't have access to this private heap.**

* What is the purpose continue statement in python?
* The continue keyword is used to end the current iteration in for loop or a while loop, and continues to the next iteration.
* What are negative indexes and why are they used?
* Negative Indexing is used to in Python to begin slicing from the end of the string i.e. the last.

**Module – 3 (Collections, functions and Modules)**

* What is List? How will you reverse a list?
* A List is an ordered and changeable collection of data objects. It is used to store the various types of data in a single variable.
* For reverse a list, a built in function called reverse() is used to reverse the list.
* How will you remove last object from a list?
* Suppose list1 is [2, 33, 222, 14, and 25], what is list1 [-1]?
* The method pop() can be used to remove and return the last value from the list or the given index value.
* List1[-1] = 25 // List index is negative and it is count from last.
* Differentiate between append () and extend () methods?
* .append() method adds an single item to a list in last whereas extend() method adds each of the iterable element which is adds in end of the list.
* How will you compare two lists?
* The list.sort() method sorts the two lists and the == operator compares the two lists item by item which means they have equal data items at equal positions.
* What is tuple? Difference between list and tuple.
* A Tuple is a collection of data objects which is ordered and not changeable.
* Tuple is unchangeable whereas list is changeable.
* How will you create a dictionary using tuples in python?
* In Python, dict() function is used to convert tuples to a dictionary. Tuple contained a key-value pair as an object.