Python Test -1

Date:- 07/06/2024

Name:- Kush Milkesh Mistry

ID:- MST03-0049

Answers to theoretical Questions

Q1.) Answer:-

Encapsulation :- It ensures privacy and data security by limiting the accessibility of attributes and methods in a class.

Example:- In a company, there are various departments, such as sales, HR, finance, Operations, etc. Now a person outside of the sales department cannot directly access the data of sale statistics. He/she needs to ask the sales department to provide the data.

Similarly, it is not possible to access the private attributes of a class directly from outside the class. We need to use getter and setter methods.

Q2.) Answer:-

Polymorphism :- Means Many forms, i.e. a function or a method in a class can show more than one type of behavior(operation)

Eg:- the operator '+' can add 2 integers, and can also concatenate 2 strings. Thus it shows polymorphic behavior.

Q6.)Answer:-

Conditional Statements:- These statements make decisions on the flow of program based on the given condition. If a condition is true, then one block of code is executed, and if it is false, then another block of code gets executed. This helps us to control the flow of the program.

Q7.)Answer:-

Decision Making Statements:- They are the same as conditional statements.

Q9.)Answer:-

Functions:- they are blocks of code, which are executed when called. Concept of functions is used when the same block of code is to be used again and again, thus eliminating the need to write it again and again.

Q10.)Answer:-

There are 5 pillars of oops in Python:- Objects, Classes, Encapsulation, Polymorphism, and Inheritance.