

Experiment – 5: Classes and Objects

Aim: To demonstrate classes and objects in python.

Theory:

Python is an object oriented programming language. A class is a user-defined blueprint or prototype from which objects are created. Classes provide a means of bundling data and functionality together. Creating a new class creates a new type of object, allowing new instances of that type to be made. Each class instance can have attributes attached to it for maintaining its state. Class instances can also have methods, defined by their class, for modifying their state.

Conclusion:

Task for submission:

(Write comments for every statement of the program)

1. Explain Self parameter in python.
2. Discuss the `_init_` function in python.
3. What is the difference between class variable and instance variable? Explain with an example.
4. Write a program in python to input student details like student roll no, student name and marks in 5 subjects etc. and calculate the student grade based on student percentage and printing all details.
5. Write a Python program that will take input from the user about details of the new account in the bank. And then print the information of each account and the total amount in the bank.
6. Give an example to show getters and setters in python.