

ASSIGNMENT 3

1. Write a Python Program to Create a Class which Performs Basic Calculator Operations.
2. Create a class named **Country** with: `country_name` and
A method to accept a **nationality** as a string from the user.
Another method to print the **nationality**. `printNationality()` to display the nationality.
Create a subclass named **State** that inherits from **Country**.
Add a method to accept and print the **state name**, called `printState()`.
Finally, write a method that prints the **state name**, **country name**, and **nationality** together.
3. Define a class named Shape and its subclass (Square/Circle). The subclass has an `init` function which takes an argument (length/radius). Both classes have an `area` and `volume` function which can print the area and volume of the given shape.
4. Define a class Teacher having members – name, address. Create a subclass called—Staff with member `staffid`, salary. Create three objects of the staff class and display all the details of the Staff.
5. Write a python program to create class family. Also perform subclass using multilevel inheritance. Accept and display the details of class.
6. Define a class Employee having members – id, name, department, salary. Create a subclass called —Manager with member bonus. Define methods accept and display in both the classes.

Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7

Submission Date: