**\*\*\* Classes and objects \*\*\***

1. A python program to define Student class and create an object to it. Also create and call the method to display the students details
2. A python program to create student class with a constructor having more than one parameter
3. A python program to understand instance variable
4. A python program to understand class variable or static variable
5. A python program using a student class with instance method to process the data of several students
6. A python program to store Data into instance method to process the data of several students
7. A python program to create a static method that counts the numbers of instance created for a class
8. A python program to create a static method that calculates the square root value of a given number
9. A python program that to create bank class where deposits and withdrawals can be handled using instance method.
10. A python program to access base class constructor from sub class
11. A python program to override super class constructor and method in sub class
12. A python program to call super class constructor in the sub class using super()
13. A python program showing single inheritance in which two sub classes are derived from a single base class
14. A python program to implement multiple inheritance using two base classes
15. A python program to override the super class method in sub class
16. Create a base class Student(Roll No, Name) which derives two classes Test (Mark1, Mark2) and Sport(Score). Result(total marks, grade) class inherits both Test and Sport classes. Write a Python program to Calculate total of marks and grade.
17. Design two base classes Personal (Name, Address, Email-id, Birthdate) and Academic (Percentage\_in\_tenth, Percentage\_in\_HSC). Derive a class Biodata from both these classes. Write a Python program to prepare a biodata of a student having Personal and Academic information.
18. Design a base class customer(name, phone\_no). Derive a class depositor(acc\_no, balance) from customer. Again derive a class borrower(loan\_no, loan\_amt) from depositor. Write necessary member functions to read and display the details of a customer.
19. Write a Python program to design a base class person (name, address, phoneno). Derive a class employee (eno, ename) from person. Derive a class principal (degree, specialization, salary) from employee.

Write a menu to :

1. accept all details of ‘n’ principals
2. display details of the principal who is getting higher salary
3. Write a Python program to pass values to base class constructors in Hierarchical inheritance. Assume suitable classes to exhibit proper relationships.
4. Write a Python program to pass values to base class constructors in Multilevel inheritance. Assume suitable classes to exhibit proper relationships.