**Programs on inheritance**

1. Create a class A with the variables x,y. Create a method to set the date to x and y. Create a subclass B with the variable z. create a method to set the data to z. Write a method to display the information.
2. Create a class Q with a variable q and consider default constructor for setting to q. Create a subclass R with a variable r and consider default constructor for setting to r. Create a subclass to R as S with a variable s and consider a default constructor for setting for s. Create a display function in each of the classes. Create a main method to call the functions
3. Create a class person with the filed firstname, lastname. Use parameterized method to set the values to the variables at runtime. Create sub class Employee with the variable eno, edept, esal. Create parameterized method for setting the data and default method for display the information.
4. Modify the above program by creating a subclass of Employee called Department with the variables dno, dname, experience. Set parameterized method for setting the data and display all the information
5. Create a class named Employee with the following details

Data members:

1. name (b) address (c) age (d) gender

Methods :

(a ) Display () to show the employee details

Create another class FullTimeEmployee that inherits the Employee class :

Data members :

1. Salary Designation

Method :

1. Display () to show the salary and designation along with other employee details.

Create another class PartTimeEmployee that inherits the Employee class :

Data members :

1. Workinghours rateperhour

Methods :

1. caluculatepay() to caluculate the amount payable
2. display() to show the amount payable along with the employee details.

Create objects of these classes and call their methods .use appropriate constructors.

1. Create a class Employer with company\_name and city. Create a parameterised method companyDetails(String, String) to set the values to the two variables.  Create a showCompanyDetails() method to display the company information.

Create a subclass Employee with eno,ename,esal. Create a parameterized constructor to set the values to these variables. create a showEmployee() to display the information.

Create a main method to test the classes

1. Create a base class called person

with SSN  and name as data types with getdata and display as member functions. Derive a  new class called student with rollno, branch,mark1,mark2,mark3 as datamembers and getdata and display  as member functions and finally derive a new  class called grade from student class in that calculate the average for marks and display the  grade for the  student

            a. A grade >=90%

            b. B grade>=80%

            c. C grade>=70%

d. Less than 70% fail.

8. Create a class Person with the fileds first name and last name. Set the data and print it. Create two subclasses employee and staff with the variables and methods:

Employee:

Variables: eno, esal, designation

Methods: setEmployee(int, double, String) and displayEmployee()

Staff:

Variable: sno,experience

Methods:setStaff(int,int) and displayStaff()

Create a class to access the information of all