2 A) Design a superclass called Staff with details as StaffId, Name, Phone, Salary. Extend this class by writing three subclasses namely Teaching (domain, publications), Technical (skills), and Contract (period). Write a Java program to read and display at least 3 staff objects of all three categories.

```
2A) import java.util.Scanner;
    class Staff
      int staffId:
      String name;
      long phoneNo;
      int salary;
      /* Scanner class to read from console */
      Scanner in = new Scanner(System.in);
     /* Method to read the Staff data */
     void readData()
       System.out.println("Enter the name of the staff");
       name = in.nextLine();
       System.out.println("Enter the staffId");
       staffId = in.nextInt();
       System.out.println("Enter the phoneNo");
       phoneNo = in.nextLong();
       System.out.println("Enter the salary");
       salary = in.nextInt();
     }
     /* Method to display the Staff data */
     void displayData()
      System.out.println("----");
      System.out.println("StaffId:" + " " + staffId);
      System.out.println("Name: " + " " + name);
      System.out.println("PhoneNo: " + " " + phoneNo);
      System.out.println("Salary: " + " " + salary);
}
```

DAA Lab

```
class StaffTeaching extends Staff
  String domain;
  int publications;
  /* Method overriding for readData() method */
  void readData()
    /* super keyword used to invoke the super class method */
    super.readData();
    in.nextLine();
    System.out.println("Enter the domain");
    domain = in.nextLine();
    System.out.println("Enter the no of publications");
    publications = in.nextInt();
  /* Method overriding for displayData() method */
   void displayData()
    super.displayData();
    System.out.println("Domain: " + " " + domain);
    System.out.println("No of publications" + " " + publications);
    System.out.println("-----");
  }
}
class StaffTechnical extends Staff
   String skills;
   void readData()
    super.readData();
    in.nextLine();
    System.out.println("Enter the skills");
    skills = in.nextLine();
   void displayData()
    super.displayData();
    System.out.println("Skills are :" + " " + skills);
```

DAA Lab

```
System.out.println("-----");
class StaffContract extends Staff
 int contPeriod;
 void readData()
    super.readData();
    System.out.println("Enter the contract period in months");
    contPeriod = in.nextInt();
 void displayData()
    super.displayData();
    System.out.println("Contract Period is :" + " " + contPeriod + " months");
    System.out.println("-----");
}
public class StaffDemo
 public static void main(String [] args)
  StaffTeaching stt[] = new StaffTeaching[3];
  StaffTechnical stec[] = new StaffTechnical[3];
  StaffContract stc[] = new StaffContract[3];
  System.out.println("Read Teaching Staff Details");
  for(int i=0; i<3; i++)
  stt[i] = new StaffTeaching();
   System.out.println("Enter the Teaching Staff" + (i+1)+" details");
   stt[i].readData();
  System.out.println("Read Technical Staff Details");
  for(int i=0; i<3; i++)
   stec[i] = new StaffTechnical();
   System.out.println("Enter the Technical Staff" + (i+1)+" details");
   stec[i].readData();
```

DAA Lab

```
}
System.out.println("Read Contract Staff Details");
for(int i=0; i<3; i++)
stc[i] = new StaffContract();
System.out.println("Enter the Contract Staff" + (i+1)+" details");
stc[i].readData();
for(int i=0;i<3;i++)
System.out.println("Details of Teaching Staff "+(i+1) +" is:");
stt[i].displayData();
for(int i=0;i<3;i++)
System.out.println("Details of Technical Staff" +""+ (i+1) +" is:");
stec[i].displayData();
for(int i=0; i<3; i++)
System.out.println("Details of Contract Staff" +" "+ (i+1) + " is:");
stc[i].displayData();
```