

Experiment 2a: Design a super class 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.

```
import java.util.*;
class staff
{
    Scanner sc= new Scanner(System.in);
    int staff_id,phno,salary;
    String name;
    public void read()
    {
        System.out.println("enter Staff id ");
        staff_id= sc.nextInt();
        System.out.println("Enter staff name");
        name= sc.next();
        System.out.println("Enter phone number of the staff");
        phno= sc.nextInt();
        System.out.println("Enter the salary of the staff");
        salary= sc.nextInt();
    }
    public void display()
    {
        System.out.print("STAFF ID: " + staff_id + "\n" + "NAME: " + name +
"\n" + "PHONE: " + phno + "\n" + "SALARY: " + salary + "\n");
    }
}
class teaching extends staff
{
    Scanner sc= new Scanner(System.in);
    String domain;
    int nop;
    public void read()
    {
        super.read();
        System.out.println("Enter the domain");
        domain= sc.next();
        System.out.println("Enter the number of publications");
        nop= sc.nextInt();
    }
    public void display()
    {
        super.display();
        System.out.print("DOMAIN : " + domain + "\n" + "NUMBER OF
PUBLICATIONS: " + nop + "\n");
    }
}
class technical extends staff
{
    Scanner sc= new Scanner(System.in);
    String skill;
    public void read()
    {
        super.read();
        System.out.println("Enter the skill set of the staff");
        skill= sc.next();
    }
}
```

```

        public void display()
        {
            super.display();
            System.out.print("SKILL: " + skill + "\n");
        }
    }
    class contract extends staff
    {
        Scanner sc= new Scanner(System.in);
        int period;
        public void read()
        {
            super.read();
            System.out.println("enter the contract period");
            period= sc.nextInt();
        }
        public void display()
        {
            super.display();
            System.out.print("CONTRACT PERIOD: " + period + "\n");
        }
    }
    public class prg2a_level {

        public static void main(String[] args) {
            Scanner sc= new Scanner(System.in);
            System.out.println("Enter the number of staff details ");
            int n= sc.nextInt();
            staff s[] = new staff[n];
            for(int i=0;i<n;i++)
            {
                System.out.println("Enter teaching staff details");
                s[i]= new teaching();
                s[i].read();
            }

            System.out.println("TEACHING STAFF DETAILS");
            for(int i=0;i<n;i++)
            {
                s[i].display();
            }

            for(int i=0;i<n;i++)
            {System.out.println("Enter technical staff details");
                s[i]= new technical();
                s[i].read();
            }

            System.out.println("TECHNICAL STAFF DETAILS");
            for(int i=0;i<n;i++)
            {
                s[i].display();
            }
            for(int i=0;i<n;i++)
            {
                System.out.println("Enter contract staff details");
                s[i]= new contract();
                s[i].read();
            }
        }
    }

```

```

        System.out.println("CONTRACT STAFF DETAILS");
        for(int i=0;i<n;i++)
        {
            s[i].display();
        }
    }
}
/* OUTPUT

```

Enter the number of staff details

1

Enter teaching staff details

enter Staff id

121

Enter staff name

DEF

Enter phone number of the staff

1234

Enter the salary of the staff

45679

Enter the domain

CSE

Enter the number of publications

12

TEACHING STAFF DETAILS

STAFF ID: 121

NAME: DEF

PHONE: 1234

SALARY: 45679

DOMAIN : CSE

NUMBER OF PUBLICATIONS: 12

Enter technical staff details

enter Staff id

123

Enter staff name

XYZ

Enter phone number of the staff

1235

Enter the salary of the staff

67900

Enter the skill set of the staff

C

TECHNICAL STAFF DETAILS

STAFF ID: 123

NAME: XYZ

PHONE: 1235

SALARY: 67900

SKILL: C

Enter contract staff details

enter Staff id

124

Enter staff name

UYI

Enter phone number of the staff

12356

Enter the salary of the staff

789000

enter the contact period

12

CONTRACT STAFF DETAILS

STAFF ID: 124

NAME: UYI

PHONE: 12356

SALARY: 789000

CONTRACT PERIOD: 12

*/