

Program 4

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.Scanner;
class Staff{
    int staffid;
    String name;
    long phone;
    int salary;
    Scanner sc = new Scanner(System.in);
    Scanner s1 = new Scanner(System.in);
    void readInfo()
    {
        System.out.println("Enter Staff Id:");
        staffid=sc.nextInt();
        System.out.println("Enter Name:");
        name=s1.nextLine();
        System.out.println("Enter Phone number:");
        phone=sc.nextLong();
        System.out.println("Enter Salary:");
        salary=sc.nextInt();
    }
    void display()
    {
        System.out.print(staffid + "\t" + name + "\t" + phone + "\t" + salary+"\t");
    }
}
class Teaching extends Staff{
    String domain;
    int publication;
    void readInfo(){
        System.out.println("Enter the details of Teaching Staff ");
        super.readInfo();
        System.out.println("Enter Domain:");
        domain=s1.nextLine();
        System.out.println("Enter Number of Publications:");
        publication = sc.nextInt();
    }
}
```

```

    }
    void display() {
        System.out.println("Staff-id\tName\tPhone\tSalary\tDomain\tPublications");
        super.display();
        System.out.print(domain + "\t" + publication + "\n");
    }

}

class Technical extends Staff{
    String skills;
    void readInfo(){
        System.out.println("Enter the details of Technical Staff");
        super.readInfo();
        System.out.println("Enter skills:");
        skills=s1.nextLine();
    }
    void display() {
        System.out.println("Staff-id\tName\tPhone\tSalary\tSkills");
        super.display();
        System.out.print(skills + "\n");
    }

}

class Contract extends Staff{
    float period;
    void readInfo(){
        System.out.println("Enter the details of Contract Staff");
        super.readInfo();
        System.out.println("Enter period:");
        period=sc.nextFloat();
    }
    void display() {
        System.out.println("Staff-id\tName\tPhone\tSalary\tPeriod");
        super.display();
        System.out.print(period + "\n");
    }

}

class StaffDetails{
    public static void main(String[] args) {

```

```
int ch;
Scanner s = new Scanner(System.in);
lp: while(true){
    System.out.println("Enter your choice: 1:Teaching, 2:Technical, 3:Contract, 4:exit");
    ch= s.nextInt();
    switch(ch){
        case 1: Teaching t1 = new Teaching();
            t1.readInfo();
            t1.display();
            break;
        case 2: Technical t2= new Technical();
            t2.readInfo();
            t2.display();
            break;
        case 3: Contract t3= new Contract();
            t3.readInfo();
            t3.display();
            break;
        case 4: break lp;
        default: System.out.println("Invalid choice");
            break;
    }
}

}
```