OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 12

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Roll No:38

Batch:RMCA B

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Aim

Create a class 'Person' with data members Name, Gender, Address, Age and a constructor to initialize the data members and another class 'Employee' that inherits the properties of class Person and also contains its own data members like Empid, Company_name, Qualification, Salary and its own constructor. Create another class 'Teacher' that inherits the properties of class Employee and contains its own data members like Subject, Department, Teacherid and also contain constructors and methods to display the data members. Use array of objects to display details of N teachers.

Procedure

```
import java.util.Scanner;
 class person {
    String Name;
    String Gender;
    String Address;
    int Age;
    person(String name,String gender,String address, int age) {
        this.Name = name;
        this.Gender = gender;
        this.Address = address;
        this.Age = age;
    }
}

class Employee extends person
{
```

```
 int Empid;
 String Company_name;
 String Qualification;
 long Salary;


 Employee(String name,String gender,String address, int age,int empid, String
company_name, String qualification,long salary)
 {
    super(name,gender,address,age);
    this.Empid= empid;
    this.Company_name=company_name;
    this.Qualification=qualification;
    this.Salary=salary;
 }
}


 public class Teacher2 extends Employee{
    String Subject;
    String Department;
    String Teacherid;
   Teacher2(String name,String gender,String address, int age,int empid, String
company_name, String qualification,long salary, String subject, String department, String
teacherid){
       super(name,gender,address,age,empid,company_name,qualification,salary);
       this.Subject=subject;
       this.Department=department;
       this.Teacherid=teacherid;
   }


   void display(){
```

```
    System.out.println("Name: "+Name);
    System.out.println("Gender: "+Gender);
    System.out.println("Address: "+Address);
    System.out.println("Age: "+Age);
    System.out.println("Employee id: "+Empid);
    System.out.println("Company Name: "+Company_name);
    System.out.println("Qualification: "+Qualification);
    System.out.println("Salary: "+Salary);
    System.out.println("Subject: "+Subject);
    System.out.println("Department: "+Department);
    System.out.println("Teacher id: "+Teacherid);

  }
  public static void main(String[] args) {
    System.out.println("\nEnter the No. of Teacher's");
    Scanner sc1 = new Scanner(System.in);
    int num = sc1.nextInt();
    Teacher2 arr[]=new Teacher2[num];
    System.out.println("\n Enter the Teacher Details\n");
    int x = 0,j=0;
    Scanner sc =new Scanner(System.in);
    for(int i =0;i<num;i++)
    {
       x = i +1;
       System.out.println("\n"+x+").");
       System.out.println("\n Name: ");
       String a =sc.next();
       System.out.println("\n Gender: ");
       String b =sc.next();
```

```
        System.out.println("\n Address: ");
        String c =sc.next();
        System.out.println("\n Age: ");
        int d =sc.nextInt();
        System.out.println("\n Employee id: ");
        int e =sc.nextInt();
        System.out.println("\n Company name: ");
        String f =sc.next();
        System.out.println("\n Qualification: ");
        String g =sc.next();
        System.out.println("\n Salary: ");
        long h =sc.nextLong();
        System.out.println("\n Subject: ");
        String k =sc.next();
        System.out.println("\n Department: ");
        String l =sc.next();
        System.out.println("\n Teacher Id: ");
        String n =sc.next();
        arr[i]=new Teacher2(a,b,c,d,e,f,g,h,k,l,n);
    }
    sc.close();
    System.out.println("\n********Informations of all the Teacher's**********");
    for(int i=0;i<num;i++){
        j=i+1;
        System.out.println("\n"+j+").");
        arr[i].display();

}
sc1.close();
```

```
    }


}
```

output

```
C:\Users\Student\Documents\java>java Teacher2

Enter the No. of Teacher's
2

 Enter the Teacher Details


1).

 Name:
anu

 Gender:
f

 Address:
kalathil

 Age:
35

 Employee id:
11

 Company name:
info

 Qualification:
mca

 Salary:
500000

 Subject:
maths

 Department:
computer

 Teacher Id:
1
```

```
2).

 Name:
anju

 Gender:
f

 Address:
moonupara

 Age:
32

 Employee id:
12

 Company name:
info

 Qualification:
mca

 Salary:
400000

 Subject:
networks

 Department:
computer

 Teacher Id:
2
```

```
C:\Users\Student\Documents\java>java Teacher2

Enter the No. of Teacher's
2

 Enter the Teacher Details


1).

 Name:
anu

 Gender:
f

 Address:
kalathil

 Age:
35

 Employee id:
11

 Company name:
info

 Qualification:
mca

 Salary:
500000

 Subject:
maths

 Department:
computer

 Teacher Id:
1
```

```
********Informations of all the Teacher's**********

1).
Name: anu
Gender: f
Address: kalathil
Age: 35
Employee id: 11
Company Name: info
Qualification: mca
Salary: 500000
Subject: maths
Department: computer
Teacher id: 1

2).
Name: anju
Gender: f
Address: moonupara
Age: 32
Employee id: 12
Company Name: info
Qualification: mca
Salary: 400000
Subject: networks
Department: computer
Teacher id: 2
```