

**OBJECT ORIENTED PROGRAMING LAB****Experiment No.: 10****Name: Susan Sebastian****Roll No: 45****Batch: S2 MCA****Date: 22-04-2022****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("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);
    }
    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();

        }
    }

}
```

**Output Screenshot**

```
1).  
  Name:  
Susan  
  Gender:  
f  
  
  Address:  
Amaljythi  
  
  Age:  
24  
  
  Employee id:  
100  
  
  Company name:  
tcs  
  
  Qualification:  
mca  
  
  Salary:  
35000  
  
  Subject:  
computer  
  
  Department:  
mca  
  
  Teacher Id:  
1527445  
  
*****Informations of all the Teacher's*****  
1).  
Name: Susan  
Gender: f  
Address: Amaljythi  
Age: 24  
Employee id: 100  
Company Name: tcs  
Qualification: mca  
Salary: 35000  
Subject: computer  
Department: mca  
Teacher id: 1527445
```