## OBJECT ORIENTED PROGRAMMING LAB

**Experiment No.: 12**

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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:

```java
import java.util.*;
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 Employe extends Person
```

```
{    int Empid;

     String Company_name;

     String Qualificatiom;

     long Salary;

     Employe(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.Qualificatiom=qualification;

          this.Salary=salary;

     }

}

public class Teacher extends Employe

{    String Teacher_id;

     String Department,Subject;

     Teacher(String name,String gender,String address,int age,int empid,String company_name,String qualification,long salary,String teacher_id,String department,String subject)

     {
super(name,gender,address,age,empid,company_name,qualification,salary);

          this.Teacher_id=teacher_id;

          this.Department=department;

          this.Subject=subject;

     }

     void display()

     {System.out.println("Name: "+Name);

      System.out.println("   Gender: "+Gender);
```

```java
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("   Qualificatiom: "+Qualificatiom);

System.out.println("   Salary: "+Salary);

System.out.println("   Teacher Id: "+Teacher_id);

System.out.println("   Department: "+Department);

System.out.println("   Subject: "+Subject);

}
public static void main(String args[])
{Scanner sc=new Scanner(System.in);

int n;

System.out.print("\nEnter number of teachers:");

n=sc.nextInt();

Teacher ob[]=new Teacher[n];

System.out.print("\n..............Enter The Teacher  Details.............");

int x=0,j=0;

Scanner s=new Scanner(System.in);

for(int i=0;i<n;i++)

{    x=i+1;

    System.out.print("\n\n"+x+". ");

    System.out.print("Name:");

    String a=s.next();

    System.out.print("   Gender:");

    String b=s.next();

    System.out.print("   Address:");
```

```java
        String c=s.next();
        System.out.print("   Age:");
        int d=s.nextInt();
        System.out.print("   Employee Id:");
        int e=s.nextInt();
        System.out.print("   Company name:");
        String f=s.next();
        System.out.print("   Qualificatiom:");
        String g=s.next();
        System.out.print("   Salary :");
        int h=s.nextInt();
        System.out.print("   Teacher Id:");
        String l=s.next();
        System.out.print("   Department:");
        String m=s.next();
        System.out.print("   Subject:");
        String k=s.next();
        ob[i]=new Teacher(a,b,c,d,e,f,g,h,l,m,k);
    }
    s.close();
    System.out.println("..........Teacher Details.........");
    for(int i=0;i<n;i++)
    {   j=i+1;
        System.out.print("\n"+j+". ");
        ob[i].display();
    }
    sc.close();
```

```
    }

}
```

## Output Screenshot:

```
C:\Users\Student\Desktop\Justin Java>javac Teacher.java

C:\Users\Student\Desktop\Justin Java>java Teacher

Enter number of teachers:1

..............Enter The Teacher  Details............

1. Name:justin
   Gender:male
   Address:kala
   Age:2
   Employee Id:1
   Company name:just
   Qualificatiom:mca
   Salary :100
   Teacher Id:1
   Department:mca
   Subject:acn
..........Teacher Details.........

1. Name: justin
   Gender: male
   Address: kala
   Age: 2
   Employee Id: 1
   Company Name: just
   Qualificatiom: mca
   Salary: 100
   Teacher Id: 1
   Department: mca
   Subject: acn
```