

OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 11

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.*;

class Person{
    String Name;
    String Gender;
    String Address;
    String Age;
    public Person(String Name,String Gender,String Address,String Age)
    {
        this.Name=Name;
        this.Gender=Gender;
        this.Address=Address;
        this.Age=Age;
    }
}

class Employee extends Person
```

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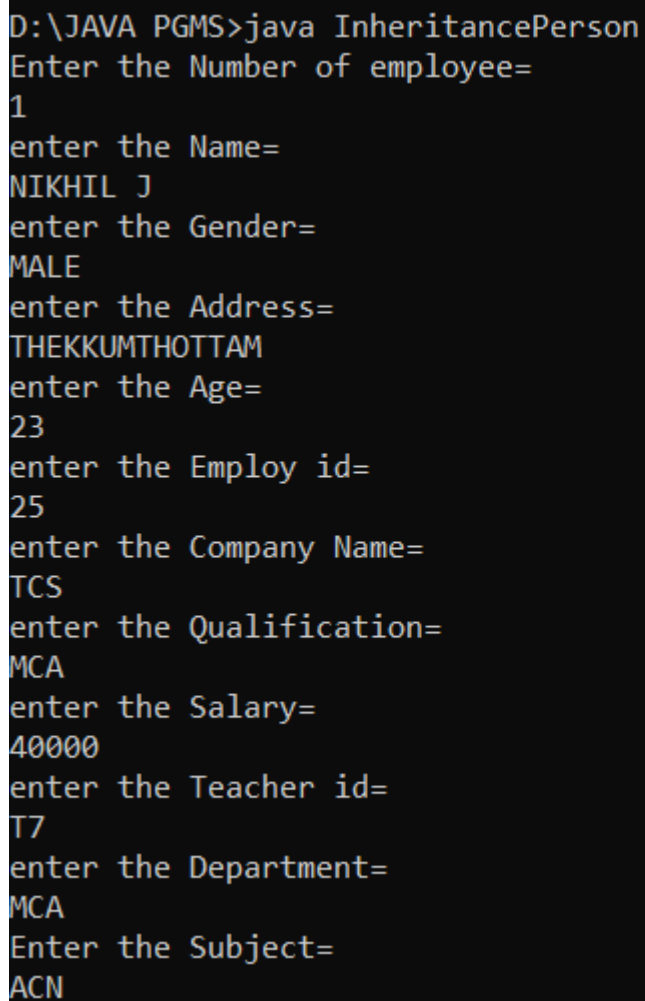
```
{  
String Empid;  
String Company_Name;  
String Qualification;  
String Salary;  
  
public Employee(String Name,String Gender,String Address,String Age ,String  
Empid,String Company_Name, String Qualification,String Salary)  
{  
super(Name,Gender,Address,Age);  
this.Empid= Empid;  
this.Company_Name=Company_Name;  
this.Qualification=Qualification;  
this.Salary=Salary;  
  
}  
}  
class Teacher extends Employee  
{  
String Teacherid;  
String Department;  
String Subject;  
public Teacher(String Name,String Gender,String Address,String Age,String  
Empid,String Company_Name,String Qualification,String Salary,String Teacherid,  
String Department,String Subject)  
{  
super(Name,Gender,Address,Age,Empid,Name,Qualification, Salary);  
this.Teacherid=Teacherid;  
this.Department=Department;  
this.Subject=Subject;
```

```
.  
}  
  
public void read()  
{ Scanner in =new Scanner(System.in);  
System.out.println("enter the Name=");  
    Name=in.nextLine();  
    System.out.println("enter the Gender=");  
    Gender=in.nextLine();  
    System.out.println("enter the Address=");  
    Address=in.nextLine();  
    System.out.println("enter the Age=");  
    Age=in.nextLine();  
    System.out.println("enter the Employ id=");  
    Empid=in.nextLine();  
    System.out.println("enter the Company Name=");  
    Company_Name=in.nextLine();  
    System.out.println("enter the Qualification=");  
    Qualification=in.nextLine();  
    System.out.println("enter the Salary=");  
    Salary=in.nextLine();  
    System.out.println("enter the Teacher id=");  
    Teacherid=in.nextLine();  
    System.out.println("enter the Department=");  
    Department=in.nextLine();  
    System.out.println("Enter the Subject=");  
    Subject=in.nextLine();  
}  
  
public void display()  
{ System.out.println("_____Employee Details_____");
```

```
System.out.println("Name="+ Name);
System.out.println("Gender=" + Gender);
System.out.println("Address=" + Address);
System.out.println("Age=" + Age);
System.out.println("Empid=" + Empid);
System.out.println("Company Name=" + Company_Name);
System.out.println("Qualification=" + Qualification);
System.out.println("Salary=" + Salary);
System.out.println("Teacher id=" + Teacherid);
System.out.println("Department=" + Department);
System.out.println("Subject=" + Subject);
System.out.println("+++++");
}
}
public class InheritancePerson
{
    public static void main(String Args[])
    { int i,n;
        Scanner in =new Scanner(System.in);
        System.out.println("Enter the Number of employee=");
        n=in.nextInt();
        Teacher T[] = new Teacher[n];
        for(i=0;i<n;i++)
        {
            T[i]=new
Teacher("Name","Gender","Address","Age","Empid","Name","Qualification","Salary","
Teacherid","Department","Subject");
            T[i].read();
        }
    }
}
```

```
for(i=0;i<n;i++)  
{  
    T[i].display();  
}  
}  
}
```

Output Screenshot



```
D:\JAVA PGMS>java InheritancePerson  
Enter the Number of employee=  
1  
enter the Name=  
NIKHIL J  
enter the Gender=  
MALE  
enter the Address=  
THEKKUMTHOTTAM  
enter the Age=  
23  
enter the Employ id=  
25  
enter the Company Name=  
TCS  
enter the Qualification=  
MCA  
enter the Salary=  
40000  
enter the Teacher id=  
T7  
enter the Department=  
MCA  
Enter the Subject=  
ACN
```

```
____Employee Details_____  
Name=NIKHIL J  
Gender=MALE  
Address=THEKKUMTHOTTAM  
Age=23  
Empid=25  
Company Name=TCS  
Qualification=MCA  
Salary=40000  
Teacher id=T7  
Department=MCA  
Subject=ACN  
+++++  
D:\JAVA PGMS>
```