

**OBJECT ORIENTED PROGRAMMING LAB****Experiment No: 12****Name: Mathew Sebastian****Roll No: 18****Batch: S2 RMCA B****Date: 24-05-2022****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 Nm,String G,String Add,int Ag){
        Name=Nm;
        Gender=G;
        Address=Add;
        Age=Ag;
    }
}
class Employee extends Person{
    int Empid;
    String Company_name;
    String Qualification;
    int Salary;
    Employee(String Nm,String G,String Add,int Ag,int Id,String Cname,String Quali,int Sal){
        super(Nm,G,Add,Ag);
        Empid=Id;
        Company_name=Cname;
        Qualification=Quali;
        Salary=Sal;
    }
}
class Teacher extends Employee{
    String Subject;
    String Department;
```

```

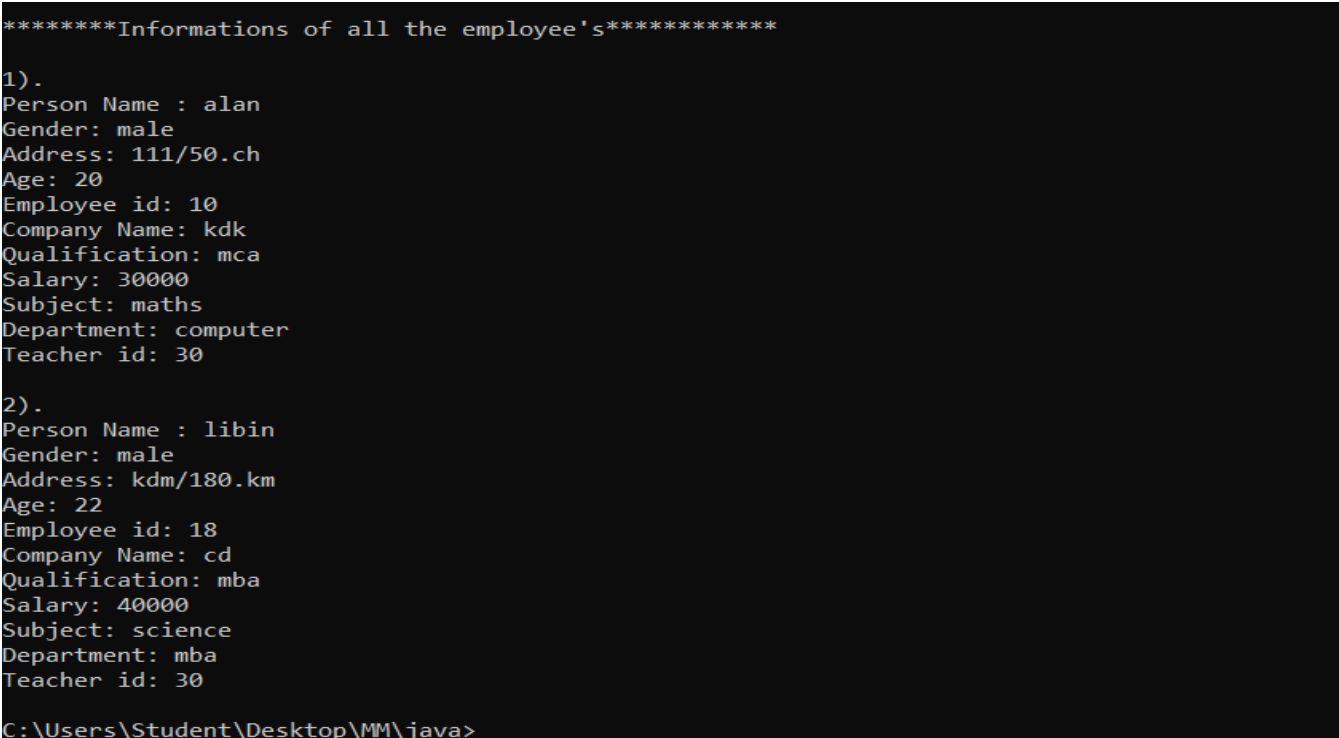
    int Teacherid;
    Teacher(String Nm,String G,String Add,int Ag,int Id,String Cname,String Quali,int Sal,String
Sub,String Dep,int Tid){
    super(Nm,G,Add,Ag,Id,Cname,Quali,Sal);
    Subject=Sub;
    Department=Dep;
    Teacherid=Tid;
}
void display(){
    System.out.println("Person Name : "+Name);
    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);
}
}
class Pers{
    public static void main(String[] args) {
        System.out.println("\nEnter the No. of persons");
        Scanner sc1 = new Scanner(System.in);
        int num = sc1.nextInt();
        Teacher arr[]=new Teacher[num];
        for(int i =0;i<num;i++)
        {
            Scanner sc =new Scanner(System.in);
            System.out.println("*****Enter Details*****");
            System.out.println("\nEnter Person Name: ");
            String Name=sc.next();
            System.out.println("\nEnter Gender: ");
            String Gender=sc.next();
            System.out.println("\nEnter Address: ");
            String Address=sc.next();
            System.out.println("\nEnter Age: ");
            int Age=sc.nextInt();
            System.out.println("\nEnter Employee id: ");
            int Empid=sc.nextInt();
            System.out.println("\nEnter Company Name: ");
            String Company_name=sc.next();
            System.out.println("\nEnter Qualification: ");
            String Qualification=sc.next();
            System.out.println("\nEnter Salary: ");
            int Salary=sc.nextInt();

```

```
System.out.println("\nEnter Subject: ");
String Subject=sc.next();
System.out.println("\nEnter Department: ");
String Department=sc.next();
System.out.println("\nEnter Teacher id: ");
int Teacherid=sc.nextInt();
arr[i]=new
Teacher(Name,Gender,Address,Age,Empid,Company_name,Qualification,Salary,Subject,Department,T
eacherid);
}
System.out.println("\n*****Informations of all the employee's*****");
for(int i=0;i<num;i++){
    int j=i+1;
    System.out.println("\n"+j+").");
    arr[i].display();

}
sc1.close();
}
}
```

### Output Screenshot



```
*****Informations of all the employee's*****
1).
Person Name : alan
Gender: male
Address: 111/50.ch
Age: 20
Employee id: 10
Company Name: kdk
Qualification: mca
Salary: 30000
Subject: maths
Department: computer
Teacher id: 30
2).
Person Name : libin
Gender: male
Address: kdm/180.km
Age: 22
Employee id: 18
Company Name: cd
Qualification: mba
Salary: 40000
Subject: science
Department: mba
Teacher id: 30
C:\Users\Student\Desktop\MM\java>
```