

OBJECT ORIENTED PROGRAMMING LAB**Experiment No: 12****Name: Manya Madhu****Roll No: 17****Batch: S2 RMCA B****Date: 18-05-2022****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,Teacherid);
}
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:

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

Enter the No. of persons
2
*****Enter Details*****

Enter Person Name:
Alex

Enter Gender:
Male

Enter Address:
Kottayam

Enter Age:
34

Enter Employee id:
100

Enter Company Name:
TCS

Enter Qualification:
BCA

Enter Salary:
25000

Enter Subject:
Java

Enter Department:
MCA

Enter Teacher id:
102
```

```
*****Enter Details*****
```

```
Enter Person Name:  
Zera
```

```
Enter Gender:  
Female
```

```
Enter Address:  
Mumbai
```

```
Enter Age:  
28
```

```
Enter Employee id:  
200
```

```
Enter Company Name:  
Wipro
```

```
Enter Qualification:  
MCA
```

```
Enter Salary:  
500000
```

```
Enter Subject:  
Python
```

```
Enter Department:  
MCA
```

```
Enter Teacher id:  
205
```

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

```
1).  
Person Name : Alex  
Gender: Male  
Address: Kottayam  
Age: 34  
Employee id: 100  
Company Name: TCS  
Qualification: BCA  
Salary: 25000  
Subject: Java  
Department: MCA  
Teacher id: 102
```

```
2).  
Person Name : Zera  
Gender: Female  
Address: Mumbai  
Age: 28  
Employee id: 200  
Company Name: Wipro  
Qualification: MCA  
Salary: 500000  
Subject: Python  
Department: MCA  
Teacher id: 205
```