

OBJECT ORIENTED PROGRAMING LAB**Experiment No.: 11****Name : Swetha Prakash****Roll No : 46****Batch : B****Date : 17-05-22****Aim**

Create a class 'Employee' with data members Empid, Name, Salary, Address and constructors to initialize the data members. Create another class 'Teacher' that inherit the properties of class employee and contain its own data members department, Subjects taught and constructors to initialize these data members and also include display function to display all the data members. Use array of objects to display details of N teachers.

Source Code

```
import java.util.Scanner;

class Employee {
    int EmpId;
    String Name;
    double Salary;
    String Address;
    Employee(int no, String na, double sal, String add) {
        this.EmpId = no;
        this.Name = na;
        this.Salary = sal;
        this.Address = add;
    }
}

public class Teacher extends Employee{
    String dept;
    String subject;
```

```
Teacher(int no, String na, double sal, String add, String dep, String sub){  
    super(no,na,sal,add);  
    this.dept= dep;  
    this.subject=sub;  
}
```

```
void display(){  
    System.out.println("Employee id : "+EmpId);  
    System.out.println("Name : "+Name);  
    System.out.println("Salary : "+Salary);  
    System.out.println("Address : "+Address);  
    System.out.println("Department : "+dept);  
    System.out.println("Subject : "+subject);  
}
```

```
public static void main(String[] args){  
    System.out.println("\nEnter the No. of Employees");  
    Scanner sc = new Scanner(System.in);  
    int num = sc.nextInt();  
    Teacher arr[]=new Teacher[num];  
    for(int i =0;i<num;i++){  
        System.out.println("\nEnter Employee id: ");  
        int EmpId=sc.nextInt();  
        System.out.println("\nEnter Employee Name: ");  
        String Name=sc.next();  
        System.out.println("\nEnter Salary: ");  
        double Salary=sc.nextDouble();  
        System.out.println("\nEnter Address: ");  
        String Address=sc.next();
```

```
System.out.println("\nEnter department: ");  
String dept=sc.next();  
System.out.println("\nEnter Subject: ");  
String subject=sc.next();  
arr[i]=new Teacher(EmpId,Name,Salary,Address,dept,subject);
```

```
}
```

```
System.out.println("\n*-*-*-*-*Informations of all the employees*-*-*-*-*");
```

```
for(int i=0;i<num;i++){  
    int j=i+1;  
    System.out.println("\n"+j+").");  
    arr[i].display();
```

```
}
```

```
}
```

```
}
```

Output Screenshot

```
C:\Users\Student\Documents\Swetha>java Teacher

Enter the No. of Employees
3

Enter Employee id:
121

Enter Employee Name:
Swetha

Enter Salary:
50000

Enter Address:
Kaleekkal

Enter department:
MCA

Enter Subject:
Computer

Enter Employee id:
122

Enter Employee Name:
Susan

Enter Salary:
51000

Enter Address:
Ooralikkunnel

Enter department:
MCA

Enter Subject:
IT
```

```
Enter Employee id:
123

Enter Employee Name:
Upas

Enter Salary:
52000

Enter Address:
Attithara

Enter department:
MCA

Enter Subject:
IT

*-*-*-*Informations of all the employees*-*-*-*

1).
Employee id : 121
Name : Swetha
Salary : 50000.0
Address : Kaleekkal
Department : MCA
Subject : Computer

2).
Employee id : 122
Name : Susan
Salary : 51000.0
Address : Ooralikkunnel
Department : MCA
Subject : IT

3).
Employee id : 123
Name : Upas
Salary : 52000.0
Address : Attithara
Department : MCA
Subject : IT
```