OBJECT ORIENTED PROGRAMMING LAB

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Batch: MCA -B

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Experiment No.: 8

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.

Program

```
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){
```

```java
    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 Employee's");

    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("\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 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

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19043.1706]
(c) Microsoft Corporation. All rights reserved.

D:\>javac Teacher.java

D:\>java Teacher

Enter the No. of Employee's
2

Enter Employee id:
123

Enter Employee Name:
arun

Enter Salary:
1200

Enter Address:
kottayam

Enter department:
science

Enter Subject:
maths

Enter Employee id:
543

Enter Employee Name:
asha

Enter Salary:
1100

Enter Address:
thrissur

Enter department:
engineering

Enter Subject:
computer

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

1).
Employee id: 123
```

```
C:\Windows\System32\cmd.exe
543

Enter Employee Name:
asha

Enter Salary:
1100

Enter Address:
thrissur

Enter department:
engineering

Enter Subject:
computer

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

1).
Employee id: 123
Name: arun
Salary: 1200.0
Address: kottayam
Department: science
Subject: maths

2).
Employee id: 543
Name: asha
Salary: 1100.0
Address: thrissur
Department: engineering
Subject: computer

D:\>
```