OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 10

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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..

Procedure

```java
import java.util.Scanner;
class Employee
{
        int EmpId;
        String EmpName;
        double Salary;
        String Address;

        Employee(int empid,String empname,double salary,String address)
        {
                EmpId=empid;
                EmpName=empname;
                Salary=salary;
                Address=address;
        }
}
class Teacher extends Employee
{

        String deptname,subject;
        Teacher(int empid,String empname,double salary,String address,String
deptname,String subject)
        {
                super(empid,empname,salary,address);
                this.deptname=deptname;
                this.subject=subject;
        }
        void display()
        {
                System.out.println("\n EMPLOYEE INFORMATION\n");
                System.out.println("\n EMPLOYEE ID  : "+EmpId);
                System.out.println("\n NAME                    : "+EmpName);
                System.out.println("\n ADDRESS                 : "+Address);
```

```java
            System.out.println("\n SALARY         : "+Salary);
            System.out.println("\n DEPARTMENT     : "+deptname);
            System.out.println("\n SUBJECT TAUGHT      : "+subject);
        }
}
public class InheritanceSample
{
public static void main(String args[])
{
        Scanner sc=new Scanner(System.in);
        String empname,address;
        double salary;
        int empid;
        int i,n;
        String dept,subject;
        Teacher[] ob;

        System.out.println("\n How many records you want to insert  ? ");
        n=sc.nextInt();
        ob=new Teacher[n];
        System.out.println("\n Enter details of "+n+" employees \n");
        for(i=0;i<n;i++)
        {
            System.out.println("\n ENTER ID OF EMPLOYEE "+(i+1)+":");
            empid=sc.nextInt();
            sc.nextLine();
            System.out.println("\n ENTER NAME OF THE EMPLOYEE : "+(i+1)+":");
            empname=sc.nextLine();
            System.out.println("\n ENTER ADDRESS OF EMPLOYEE "+(i+1)+":");
            address=sc.nextLine();
            System.out.println("\n ENTER THE SALARY OF EMPLOYEE "+(i+1)+":");
            salary=sc.nextDouble();
            sc.nextLine();
            System.out.println("\n ENTER THE DEPARTMENT OF THE EMPLOYEE: ");
            dept=sc.nextLine();
            System.out.println("\n ENTER THE SUBJECT TAUGHT BY THE
EMPLOYEE(TEACHER): ");
            subject=sc.nextLine();
            ob[i]=new Teacher(empid,empname,salary,address,dept,subject);
        }
        System.out.println("\n INFORMATION OF ALL EMPLOYEES\n");
        for(i=0;i<n;i++)
            ob[i].display();
}
}
```

Output screenshot

```
C:\Users\Student\Desktop\Java>javac InheritanceSample.java

C:\Users\Student\Desktop\Java>java InheritanceSample

 How many records you want to insert  ?
2

 Enter details of 2 employees


 ENTER ID OF EMPLOYEE 1:
101

 ENTER NAME OF THE EMPLOYEE : 1:
Akhil

 ENTER ADDRESS OF EMPLOYEE 1:
Palakunnil house

 ENTER THE SALARY OF EMPLOYEE 1:
30000

 ENTER THE DEPARTMENT OF THE EMPLOYEE:
Economics

 ENTER THE SUBJECT TAUGHT BY THE EMPLOYEE(TEACHER):
English

 ENTER ID OF EMPLOYEE 2:
102

 ENTER NAME OF THE EMPLOYEE : 2:
Aarathy

 ENTER ADDRESS OF EMPLOYEE 2:
kattuvgettiyil house

 ENTER THE SALARY OF EMPLOYEE 2:
60000

 ENTER THE DEPARTMENT OF THE EMPLOYEE:
Politics
```

```
ENTER THE SUBJECT TAUGHT BY THE EMPLOYEE(TEACHER):
Maths

 INFORMATION OF ALL EMPLOYEES


 EMPLOYEE INFORMATION


 EMPLOYEE ID    : 101

 NAME                  : Akhil

 ADDRESS               : Palakunnil house

 SALARY        : 30000.0

 DEPARTMENT   : Economics

 SUBJECT TAUGHT : English

 EMPLOYEE INFORMATION


 EMPLOYEE ID    : 102

 NAME                  : Aarathy

 ADDRESS               : kattuvgettiyil house

 SALARY        : 60000.0

 DEPARTMENT   : Politics

 SUBJECT TAUGHT : Maths

C:\Users\Student\Desktop\Java>
```