OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 11

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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

```
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);
            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();
}
}
```