

**OBJECT ORIENTED PROGRAMING LAB****Experiment No.: 12****Name : Swetha Prakash****Roll No : 46****Batch : B****Date : 17-05-22****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.

**Source Code**

```
class DetailsNTeachers{
    public static void main(String[] args) {
        Teacher teacObj[] = new Teacher[2];
        teacObj[0] = new Teacher("Swetha Prakash","Female","Kaleekkal
House",22,1234,"Wipro","phd",120000,"CA","CS",46);
        teacObj[1] = new Teacher("Susan Sebastian","Female","Ooralikkunnel
House",22,1235,"TCS","mphil",130000,"CN","CSS",45);
        teacObj[0].display();
        teacObj[1].display();
    }
}

class Person {
    String name;
    String gender;
```

String address;

int age;

Person(String name,String gender,String addr,int age){

    this.name = name;

    this.gender = gender;

    this.address = addr;

    this.age = age;

}

protected void display(){

    System.out.println("Name : " + this.name);

    System.out.println("Gender : " + this.gender);

    System.out.println("Address : " + this.address);

    System.out.println("Age : " + this.age);

}

}

class Employee extends Person{

    int empId;

    String companyName;

    String qualification;

    int salary;

Employee(String name,String gen,String add,int age,int id,String comp,String qual,int salary){

    super(name,gen,add,age);

    this.empId = id;

    this.companyName =comp;

    this.qualification =qual;

```
        this.salary=salary;
    }
    protected void display(){
        super.display();
        System.out.println("ID : " + this.empId);
        System.out.println("Company name : " + this.companyName);
        System.out.println("Qualification: " + this.qualification);
        System.out.println("Salary : " + this.salary);
    }
}

class Teacher extends Employee{
    String subject;
    String dept;
    int tchrid;

    Teacher(String name,String gen,String add,int age,int id,String comp,String qual,int
    salary,String subj,String dept,int tchid){
        super(name,gen,add,age,id,comp,qual,salary);
        this.dept =dept;
        this.tchrid =tchid;
        this.subject =subj;
    }

    public void display(){
        System.out.println("*****");
        super.display();
        System.out.println("Subject : " + this.subject);
        System.out.println("Department : " + this.dept);
        System.out.println("Teacher ID : " + this.tchrid);
        System.out.println("*****");
    }
}
```

## Output Screenshot

```
D:\Swetha>java DetailsNTeachers
*****
Name : Swetha Prakash
Gender : Female
Address : Kaleekkal House
Age : 22
ID : 1234
Company name : Wipro
Qualification: phd
Salary : 120000
Subject : CA
Department : CS
Teacher ID : 46
*****
*****
Name : Susan Sebastian
Gender : Female
Address : Ooralikkunnel House
Age : 22
ID : 1235
Company name : TCS
Qualification: mphil
Salary : 130000
Subject : CN
Department : CSS
Teacher ID : 45
*****
```