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**Object Oriented Programming LAB**

**Experiment No: 12**

**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.

**Procedure**

import java.util.\*;

class Person

{

String Name;

String Gender;

String Address;

int Age;

Person(String name,String gender,String address,int age)

{

this.Name=name;

this.Gender=gender;

this.Address=address;

this.Age=age;

}

}

class Employe extends Person

{

int Empid;

String Company\_name;

String Qualification;

long Salary;

Employe(String name,String gender,String address,int age,int empid,String company\_name,String qualification,long salary)

{

super(name,gender,address,age);

this.Empid=empid;

this.Company\_name=company\_name;

this.Qualification=qualification;

this.Salary=salary;

}

}

public class Teacher extends Employe

{ String Teacher\_id;

String Department,Subject;

Teacher(String name,String gender,String address,int age,int empid,String company\_name,String qualification,long salary,String teacher\_id,String department,String subject)

{

super(name,gender,address,age,empid,company\_name,qualification,salary);

this.Teacher\_id=teacher\_id;

this.Department=department;

this.Subject=subject;

}

void display()

{

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

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

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

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

System.out.println(" Employee Id: "+Empid);

System.out.println(" Company Name: "+Company\_name);

System.out.println(" Qualification: "+Qualification);

System.out.println(" Salary: "+Salary);

System.out.println(" Teacher Id: "+Teacher\_id);

System.out.println(" Department: "+Department);

System.out.println(" Subject: "+Subject);

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int n;

System.out.print("\nEnter number of teachers:");

n=sc.nextInt();

Teacher ob[]=new Teacher[n];

System.out.print("\n..............Enter The Teacher Details.............");

int x=0,j=0;

Scanner s=new Scanner(System.in);

for(int i=0;i<n;i++)

{

x=i+1;

System.out.print("\n\n"+x+". ");

System.out.print("Name:");

String a=s.next();

System.out.print(" Gender:");

String b=s.next();

System.out.print(" Address:");

String c=s.next();

System.out.print(" Age:");

int d=s.nextInt();

System.out.print(" Employee Id:");

int e=s.nextInt();

System.out.print(" Company name:");

String f=s.next();

System.out.print(" Qualification:");

String g=s.next();

System.out.print(" Salary :");

int h=s.nextInt();

System.out.print(" Teacher Id:");

String l=s.next();

System.out.print(" Department:");

String m=s.next();

System.out.print(" Subject:");

String k=s.next();

ob[i]=new Teacher(a,b,c,d,e,f,g,h,l,m,k);

}

s.close();

System.out.println("..........Teacher Details.........");

for(int i=0;i<n;i++)

{

j=i+1;

System.out.print("\n"+j+". ");

ob[i].display();

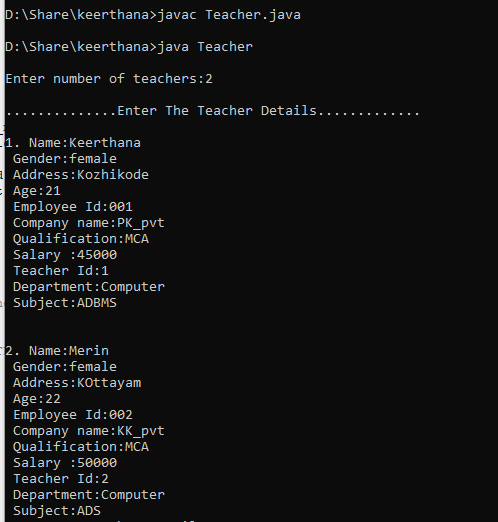
}

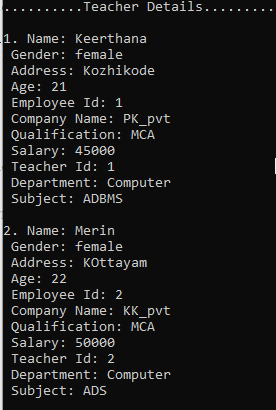
sc.close();

}

}

**Output**

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