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**Batch: RMCA-B**

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**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.Scanner;

class Person

{

String name,gender,address;

int age;

public Person()

{

Scanner in = new Scanner(System.in);

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

name = in.next();

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

age =in.nextInt();

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

gender = in.next();

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

address = in.next();

}

}

class Employee extends Person

{

int empid,salary;

String quali,cname;

public Employee()

{

Scanner in= new Scanner(System.in);

System.out.print("Enter Emp\_id : ");

empid = in.nextInt();

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

salary = in.nextInt();

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

quali = in.next();

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

cname = in.next();

}

}

class Teacher extends Employee

{

String sub,dept;

int teacher\_id;

public Teacher()

{

Scanner in= new Scanner(System.in);

System.out.print("Enter Teacher\_id : ");

teacher\_id = in.nextInt();

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

sub = in.next();

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

dept = in.next();

}

public void display()

{

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

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

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

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

System.out.println("Emp id : "+empid);

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

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

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

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

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

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

}

}

public class Persons {

public static void main(String args[])

{

int n;

Scanner in = new Scanner(System.in);

System.out.println("Enter number of teachers : ");

n = in.nextInt();

Teacher[] obj = new Teacher[n];

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

{

obj[i] = new Teacher();

}

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

{

System.out.println("\nDetails of Employee No : " + (i+1));

obj[i].display();

}

}

}

**OUTPUT**



