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**Roll No: 48**

**Batch: B**

**Date: 17/05/2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 2**

**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.

**Code**

import java.util.\*;

class Employee

{

int empid,salary;

String name,address;

public Employee(int empid,int salary,String name,String address)

{

this.empid=empid;

this.salary=salary;

this.name=name;

this address=address;

}

}

class Teacher extends Employee

{

String dept,sub;

public Teacher(String dept,String sub)

{

this.dept=dept;

this.sub=sub;

}

public void display()

{

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

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

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

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

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

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

}

}

class Single

{

public static void main(String args[])

{

int n;

int empid,name,address,salary,dept,sub;

Scanner in=new Scanner(System.in);

System.out.print("Enter the number of employee:");

n=in.nextInt();

System.out.print("Enter the employee id:");

empid=in.nextInt();

System.out.print("Enter the name:");

name=in.next();

System.out.print("Enter the address:");

address=in.next();

System.out.print("Enter the salary:");

salary=in.nextInt();

System.out.print("Enter the department:");

dept=in.next();

System.out.print("Enter the subject:");

sub=in.next();

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**

