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**Batch: B**

**Date: 17/05/2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 2**

**Aim**

Area of different shapes using overloaded functions.

**Code**

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**



