Slip 2

10 Marks:

```
java
Copy code
import java.util.Scanner;

public class Employee {
    int id;
    String name;
    String deptname;
    float salary;
    static int numberofobjects = 0;

    Employee() {
        id = 0;
        name = "";
        deptname = "";
        salary = 0;
    }

    Employee(int id, String name, String deptname, float salary) {
        this.id = id;
        this.name = name;
        this.deptname = deptname;
        this.salary = salary;
        numberofobjects++;
    }

    public void display() {
        System.out.println("Employee Id: " + id);
        System.out.println("Employee name: " + name);
        System.out.println("Employee Department: " + deptname);
        System.out.println("Employee Salary: " + salary);
    }

    public static void main(String[] args) {
        int n = 0;
        Scanner sc = new Scanner(System.in);
        System.out.print("How many employees you want to enter: ");
        n = sc.nextInt();
        Employee[] ob = new Employee[n];
        for (int i = 0; i < n; i++) {
            sc = new Scanner(System.in);
            System.out.println("Enter Id of employee " + (i + 1) + ":");
            int id = sc.nextInt();
            System.out.println("Enter Name of employee " + (i + 1) + ":");
            sc.nextLine();
            String name = sc.nextLine();
            System.out.println("Enter dept name of employee " + (i + 1) +
":");
            String deptname = sc.nextLine();
            System.out.println("Enter salary of employee " + (i + 1) + ":");
            float salary = sc.nextFloat();
            ob[i] = new Employee(id, name, deptname, salary);
```

```
            System.out.println("\nNumber of Objects: " + numberofobjects);
        }
        for (int i = 0; i < n; i++) {
            ob[i].display();
        }
    }
}
```

20 Marks:

```
java
Copy code
import java.io.*;

interface ProductMarker {}

class Product implements ProductMarker {
    int productId;
    String productName;
    double productCost;
    int productQuantity;

    public Product(int productId, String productName, double productCost, int
productQuantity) {
        this.productId = productId;
        this.productName = productName;
        this.productCost = productCost;
        this.productQuantity = productQuantity;
    }

    public void displayProduct() {
        System.out.println("Product ID: " + productId);
        System.out.println("Product Name: " + productName);
        System.out.println("Product Cost: " + productCost);
        System.out.println("Product Quantity: " + productQuantity);
    }

    public static void main(String[] args) {
        Product p1 = new Product(101, "Pen", 10.5, 50);
        Product p2 = new Product(102, "Notebook", 45.0, 100);
        p1.displayProduct();
        p2.displayProduct();
    }
}
```