Slip 28

10 Marks:

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

class Palindrome {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a string to check if it is a palindrome: ");
        String original = sc.nextLine();
        String reversed = new StringBuilder(original).reverse().toString();

        if (original.equals(reversed)) {
            System.out.println(original + " is a palindrome.");
        } else {
            System.out.println(original + " is not a palindrome.");
        }
    }
}
```

20 Marks:

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

class Student {
    private int id;
    private String name;
    private double marks;

    public Student(int id, String name, double marks) {
        this.id = id;
        this.name = name;
        this.marks = marks;
    }

    public void display() {
        System.out.println("ID: " + id + ", Name: " + name + ", Marks: " +
marks);
    }
}

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter number of students: ");
        int n = sc.nextInt();
        Student[] students = new Student[n];

        for (int i = 0; i < n; i++) {
            System.out.print("Enter ID: ");
```

```java
            int id = sc.nextInt();
            sc.nextLine();  // Consume newline
            System.out.print("Enter Name: ");
            String name = sc.nextLine();
            System.out.print("Enter Marks: ");
            double marks = sc.nextDouble();
            students[i] = new Student(id, name, marks);
        }

        System.out.println("Student Details:");
        for (Student student : students) {
            student.display();
        }
    }
}
```