

Slip 10

10 Marks:

```
import java.util.Scanner;

class PersonName {
    String firstName, middleName, lastName;

    void accept() {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter First Name: ");
        firstName = sc.next();

        System.out.print("Enter Middle Name: ");
        middleName = sc.next();

        System.out.print("Enter Last Name: ");
        lastName = sc.next();

        // Capitalize the first character of the middle name
        middleName = middleName.substring(0, 1).toUpperCase() +
middleName.substring(1);
    }

    void display() {
        System.out.println("Formatted Name: " + lastName + ", " + firstName +
" " + middleName);
    }

    public static void main(String[] args) {
        PersonName person = new PersonName();
        person.accept();
        person.display();
    }
}
```

20 Marks:

```
interface Operation {
    double PI = 3.142;

    double area();
    double volume();
}

class Cylinder implements Operation {
    double radius, height;

    public Cylinder(double radius, double height) {
        this.radius = radius;
        this.height = height;
    }
}
```

```
@Override
public double area() {
    return 2 * PI * radius * (radius + height);
}

@Override
public double volume() {
    return PI * radius * radius * height;
}
}

public class Main {
    public static void main(String[] args) {
        Cylinder cylinder = new Cylinder(5, 10);

        System.out.println("Area of Cylinder: " + cylinder.area());
        System.out.println("Volume of Cylinder: " + cylinder.volume());
    }
}
```