Slip 1

10 Marks

```
class Rectangle {
    public static void main(String[] args) {
        int l = 10;
        int b = 15;

        int area = l * b;
        int peri = 2 * (l + b);

        System.out.println("The area is " + area);
        System.out.println("The perimeter is " + peri);
    }
}
```

20 Marks

```
import java.io.*;

abstract class Order {
    String id, description, customerName, vendorName;

    public void accept() throws IOException {
        BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
        System.out.println("Enter id, description, customer name, and vendor
name: ");
        id = br.readLine();
        description = br.readLine();
        customerName = br.readLine();
        vendorName = br.readLine();
    }

    public void display() {
        System.out.println("id: " + id);
        System.out.println("Description: " + description);
        System.out.println("Customer Name: " + customerName);
        System.out.println("Vendor Name: " + vendorName);
        System.out.println("----------------------");
    }
}

class PurchaseOrder extends Order {}
class SalesOrder extends Order {}

public class Main {
    public static void main(String[] args) throws IOException {
        BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
        System.out.println("Select 1 for Purchase Order or 2 for Sales Order:
");
        int choice = Integer.parseInt(br.readLine());
```

```
        System.out.println("Enter the number of orders: ");
        int n = Integer.parseInt(br.readLine());
        Order[] orders = new Order[n];

        for (int i = 0; i < n; i++) {
            orders[i] = (choice == 1) ? new PurchaseOrder() : new
SalesOrder();
            orders[i].accept();
        }

        for (Order order : orders) {
            order.display();
            System.out.println("Object created");
        }
    }
}
```