Slip 20

10 Marks:

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

public class FileExample {
    public static void main(String[] args) {
        try {
            BufferedReader reader = new BufferedReader(new
FileReader("sample.txt"));
            String line;
            while ((line = reader.readLine()) != null) {
                System.out.println(line);
            }
            reader.close();
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

20 Marks:

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

abstract class Order {
    String id;
    String description;

    public Order(String id, String description) {
        this.id = id;
        this.description = description;
    }

    public abstract void accept();

    public void display() {
        System.out.println("Order ID: " + id);
        System.out.println("Description: " + description);
    }
}

class PurchaseOrder extends Order {
    String customerName;

    public PurchaseOrder(String id, String description, String customerName)
{
        super(id, description);
        this.customerName = customerName;
    }
```

```java
    @Override
    public void accept() {
        System.out.println("Accepting Purchase Order for customer: " +
customerName);
    }

    @Override
    public void display() {
        super.display();
        System.out.println("Customer Name: " + customerName);
    }
}

class SalesOrder extends Order {
    String vendorName;

    public SalesOrder(String id, String description, String vendorName) {
        super(id, description);
        this.vendorName = vendorName;
    }

    @Override
    public void accept() {
        System.out.println("Accepting Sales Order for vendor: " +
vendorName);
    }

    @Override
    public void display() {
        super.display();
        System.out.println("Vendor Name: " + vendorName);
    }
}

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 ID and Description for the order: ");
        String id = br.readLine();
        String description = br.readLine();

        Order order;
        if (choice == 1) {
            System.out.println("Enter Customer Name: ");
            String customerName = br.readLine();
            order = new PurchaseOrder(id, description, customerName);
        } else {
            System.out.println("Enter Vendor Name: ");
            String vendorName = br.readLine();
            order = new SalesOrder(id, description, vendorName);
        }
```

```
        order.accept();
        order.display();
    }
}
```