## Slip 22

## 10 Marks:

}

```
java
Copy code
import java.util.function.Function;
public class Cube {
    public static void main(String args[]) {
        Function<Integer, Integer> cubFunction = (n) -> n * n * n;
        int n = 5;
        int cube = cubFunction.apply(n);
        System.out.println("The cube of " + n + " is: " + cube);
}
20 Marks:
java
Copy code
import java.util.Scanner;
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;
    }
    @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();
   }
}
```