Name:- Bhavesh Kewalramani

Roll No.:- 25

Batch:- A1

Semester:-4th

Shift:- 1st

Section:- A

PRACTICAL-1

AIM:- Write a program to demonstrate method overloading.

Problem Statement: - Write a program to create a class OnlineShoppingPortal. Customers are of two categories, Prime and Regular. "Prime" requires only amount to be paid for checkout and "Regular" customer has to provide amount and promocode. A prime customer gets 25% off if cart value > 3000, else 15% off. A regular customer (provided that the entered code matches "GET10") gets Rs.10 off if cart value < 500, else 10% off.

Solution:-

```java
package first;

import java.util.Scanner;

public class OnlineShoppingPortal {
    int amount;
```

```java
    String promocode;
    String type;

    void checkOut(String s,int amount) {
        int flag=0;
        if(s.equals("PRIME")) {
            if(amount>=3000){
            int dis=amount*25/100;
            amount-=dis;
            flag=1;
            System.out.println("Congrats! you
got 25% off...");
            System.out.println("Your amount
after discount is Rs "+amount);

            }
            else {
            int dis=amount*15/100;
            amount=amount-dis;
            flag=1;
            System.out.println("Congrats! you
got 15% off...");
            System.out.println("Your amount
after discount is Rs "+amount);
            }
        }
        if(flag==0) {
            System.out.println("Error
occurred. Please check the information and
try again...");
        }

}
```

```java
    void checkOut(String s,int amount,String
pcode) {
        int flag=0;
        if(s.equals("REGULAR")) {
            if(pcode.equals("GET10")) {
                if(amount<=500) {
                    amount=amount-10;
                    flag=1;

    System.out.println("Congrats! you got Rs
10 off...");
                    System.out.println("Your
amount after discount is Rs "+amount);
                }
                else {
                    int dis=amount*10/100;
                    amount=amount-dis;
                    flag=1;

    System.out.println("Congrats! you got 10%
off...");
                    System.out.println("Your
amount after discount is Rs "+amount);
                }
            }
        }
        if(flag==0) {
            System.out.println("Sorry no such
promocode found...");
            System.out.println("Your amount
without any discount is Rs "+amount);
        }
    }
    public static void main(String[] args) {
        int f=0;
```

```java
        OnlineShoppingPortal s=new
OnlineShoppingPortal();
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the type of
customer you are [Prime or Regular] : ");
        s.type=sc.next();
        s.type=s.type.toUpperCase();
        if(s.type.equals("PRIME")||
s.type.equals("REGULAR")) {
            if(s.type.equals("PRIME")) {
                System.out.println("Enter the
amount : ");
                s.amount=sc.nextInt();
                if(s.amount>0) {
                    f=1;

    s.checkOut(s.type,s.amount);
                }
            }
            else {
                System.out.println("Enter the
amount : ");
                s.amount=sc.nextInt();
                System.out.println("Enter the
promocode :");
                s.promocode=sc.next();

    s.promocode=s.promocode.toUpperCase();
                if(s.amount>0) {
                    f=1;

    s.checkOut(s.type,s.amount,s.promocode);
                }
            }
            if(f==0) {
```
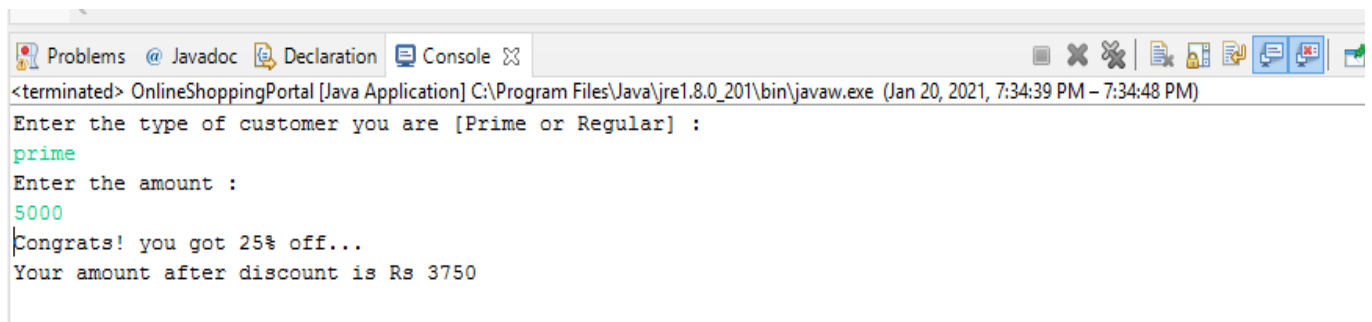
```
                    System.out.println("Please
    check the amount you entered...");
                }
            }
        else {
                System.out.println("Type of
    customer entered is wrong. Please check it
    again...");
            }
        }
    }
```
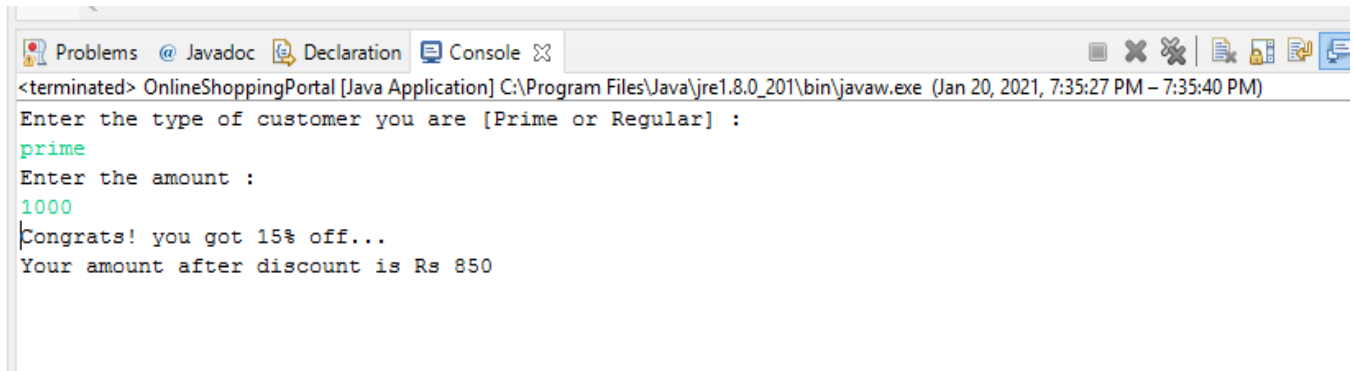
Output:-

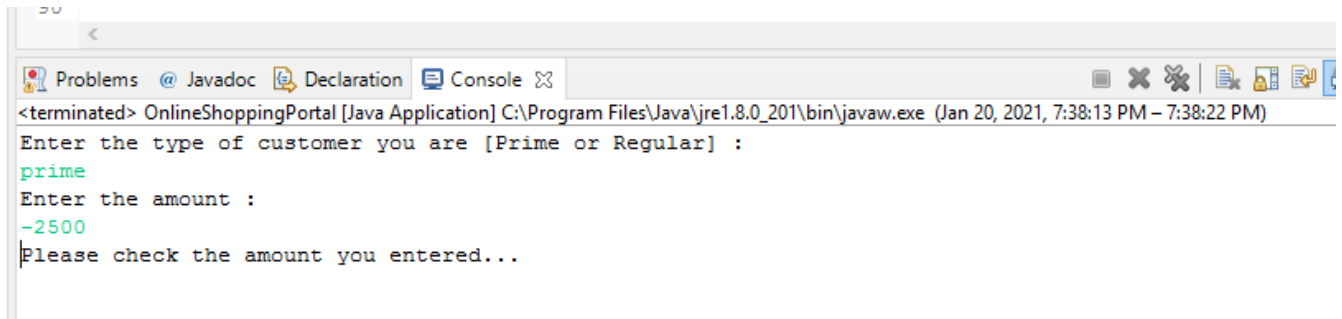1. When customer is 'Prime' and amount entered is greater than Rs 3000 or equal to Rs 3000.


```
Problems  @ Javadoc  Declaration  Console
<terminated> OnlineShoppingPortal [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe  (Jan 20, 2021, 7:34:39 PM – 7:34:48 PM)
Enter the type of customer you are [Prime or Regular] :
prime
Enter the amount :
5000
Congrats! you got 25% off...
Your amount after discount is Rs 3750
```

2. When customer is 'Prime' and amount entered is less than Rs 3000.
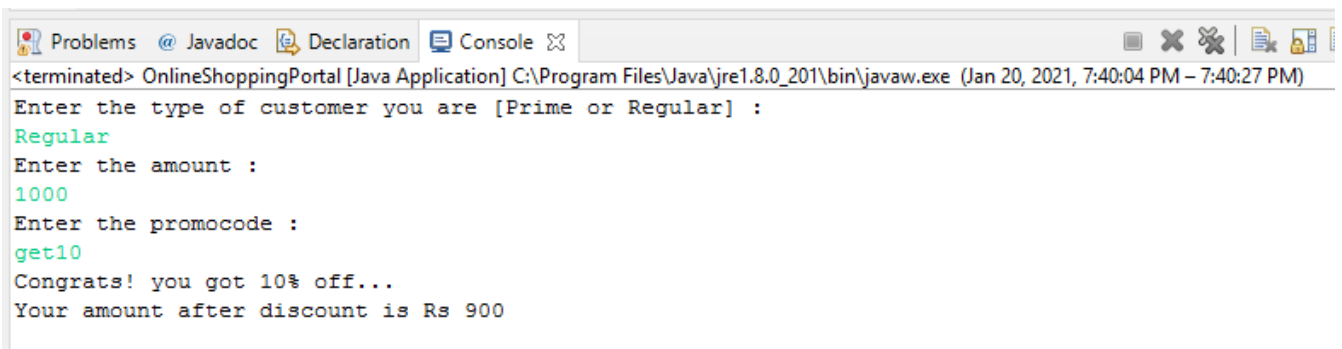
```
Enter the type of customer you are [Prime or Regular] :
prime
Enter the amount :
1000
Congrats! you got 15% off...
Your amount after discount is Rs 850
```

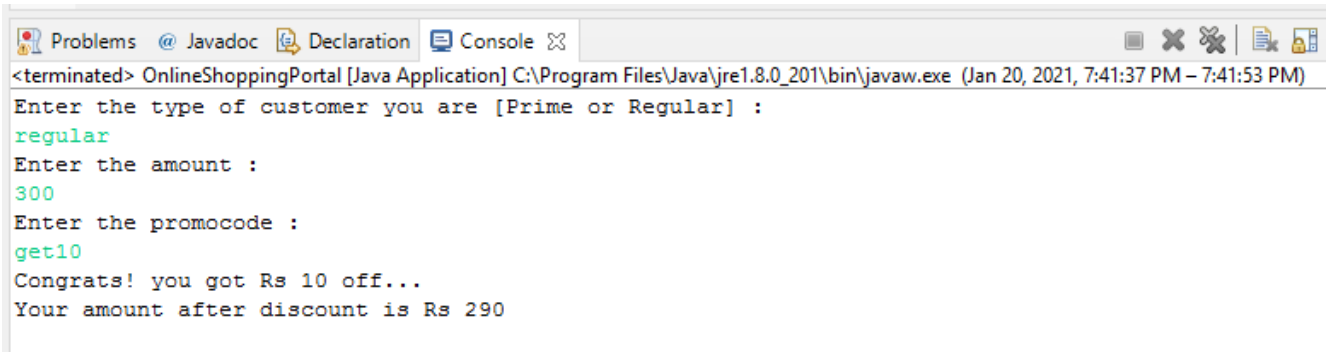3. When customer is 'Prime' and amount entered is negative.

```
Enter the type of customer you are [Prime or Regular] :
prime
Enter the amount :
-2500
Please check the amount you entered...
```

4. When customer is 'Regular' and amount entered is greater than Rs 500 or equal to Rs 500 and promo-code entered is 'GET10'.
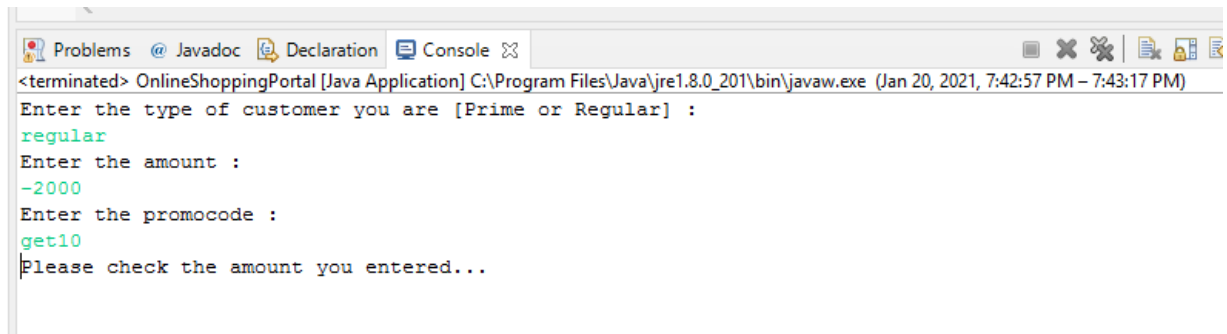
```
Enter the type of customer you are [Prime or Regular] :
Regular
Enter the amount :
1000
Enter the promocode :
get10
Congrats! you got 10% off...
Your amount after discount is Rs 900
```

5. When customer is 'Regular' and amount entered is less than Rs 500 and promo-code entered is 'GET10'.
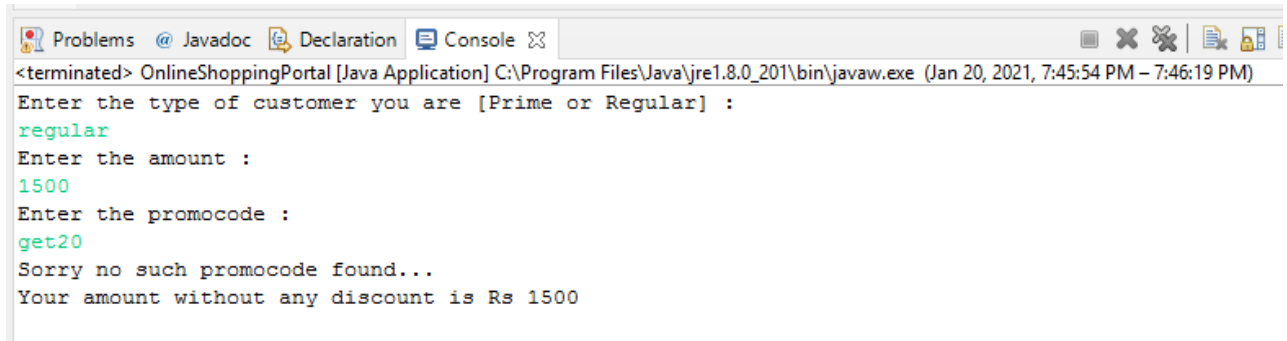
```
Problems  @ Javadoc  Declaration  Console ⊠
<terminated> OnlineShoppingPortal [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe  (Jan 20, 2021, 7:41:37 PM – 7:41:53 PM)
Enter the type of customer you are [Prime or Regular] :
regular
Enter the amount :
300
Enter the promocode :
get10
Congrats! you got Rs 10 off...
Your amount after discount is Rs 290
```

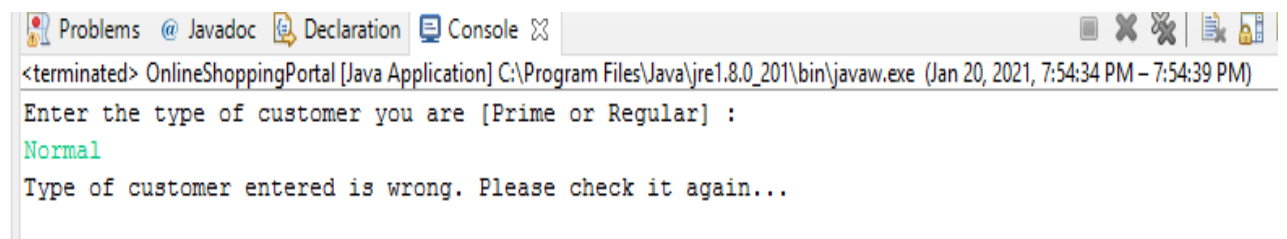6. When customer is 'Regular' and amount entered is negative and promo-code entered is 'GET10'.

```
Problems  @ Javadoc  Declaration  Console ⊠
<terminated> OnlineShoppingPortal [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe  (Jan 20, 2021, 7:42:57 PM – 7:43:17 PM)
Enter the type of customer you are [Prime or Regular] :
regular
Enter the amount :
-2000
Enter the promocode :
get10
Please check the amount you entered...
```

7. When customer is 'Regular' and amount entered is greater than Rs 500 or equal to Rs 500 or less than 500 but promo-code entered is wrong.

```
Enter the type of customer you are [Prime or Regular] :
regular
Enter the amount :
1500
Enter the promocode :
get20
Sorry no such promocode found...
Your amount without any discount is Rs 1500
```

8. When customer is neither 'Prime' nor 'Regular' but promo-code
   entered is 'GET10'.

```
Enter the type of customer you are [Prime or Regular] :
Normal
Type of customer entered is wrong. Please check it again...
```