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**Enrollment number - 21162101012**

**Branch - CBA , Batch - 31**

## **OOP Practical 13**

**Problem** : Ram is developing a restaurant management system using the following modules:

1. An interface RestDetails with a variable consisting of the restaurant name and a getMenu(String choice) method to take the user input for the different food items to be ordered.
2. Abstract class Order with an abstract function as getInvoice which will generate the total invoice amount and its discounted amount based on the food item's ordered, if the amount exceeds 2000, apply discount of 20% and a constructor to take the user input for the food order such as sweet, spicy, sour, etc.
3. A class known as RestMgmt inherits the interface and Abstract Class to display the choices made, food items selected and the invoice generated.

**Program** :

```
package Hare_Krishna;

import java.util.Scanner;

interface RestDetails
{
    String name = "Govinda's";
    String getMenu(String choice);
}

abstract class Order
{
```

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```
String choice;

abstract int getInvoice();

Order(String choice)
{
    this.choice = choice;
}
}

class RestMgmt extends Order implements RestDetails
{
    public RestMgmt()
    {
        super("Sweet");
    }

    public String getMenu(String choice)
    {
        return choice;
    }

    public int getInvoice()
    {
```

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```
        int amnt = 0;

        if (choice.equals("Spicy"))
            amnt = 2938;
        else if(choice.equals("Sweet"))
            amnt = 2640;
        else if(choice.equals("Sour"))
            amnt = 1461;
        else if(choice.equals("Bitter"))
            amnt = 1395;
        else if(choice.equals("Salty"))
            amnt = 2507;
        if (amnt > 2000)
            amnt -= (amnt * 0.2);

        return amnt;
    }
}

public class Prac_13
{
    public static void main(String... s)
```

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```
{  
    Scanner scnr = new Scanner(System.in);  
    System.out.print("\nEnter the name of the food item : ");  
    String dish = scnr.nextLine();  
    RestMgmt yummy = new RestMgmt();  
    yummy.getMenu(dish);  
    System.out.print("\nThe ordered dish : " +  
yummy.getMenu(dish));  
    System.out.print("\nYour invoice amount : " +  
yummy.getInvoice() + "\n");  
}  
}
```

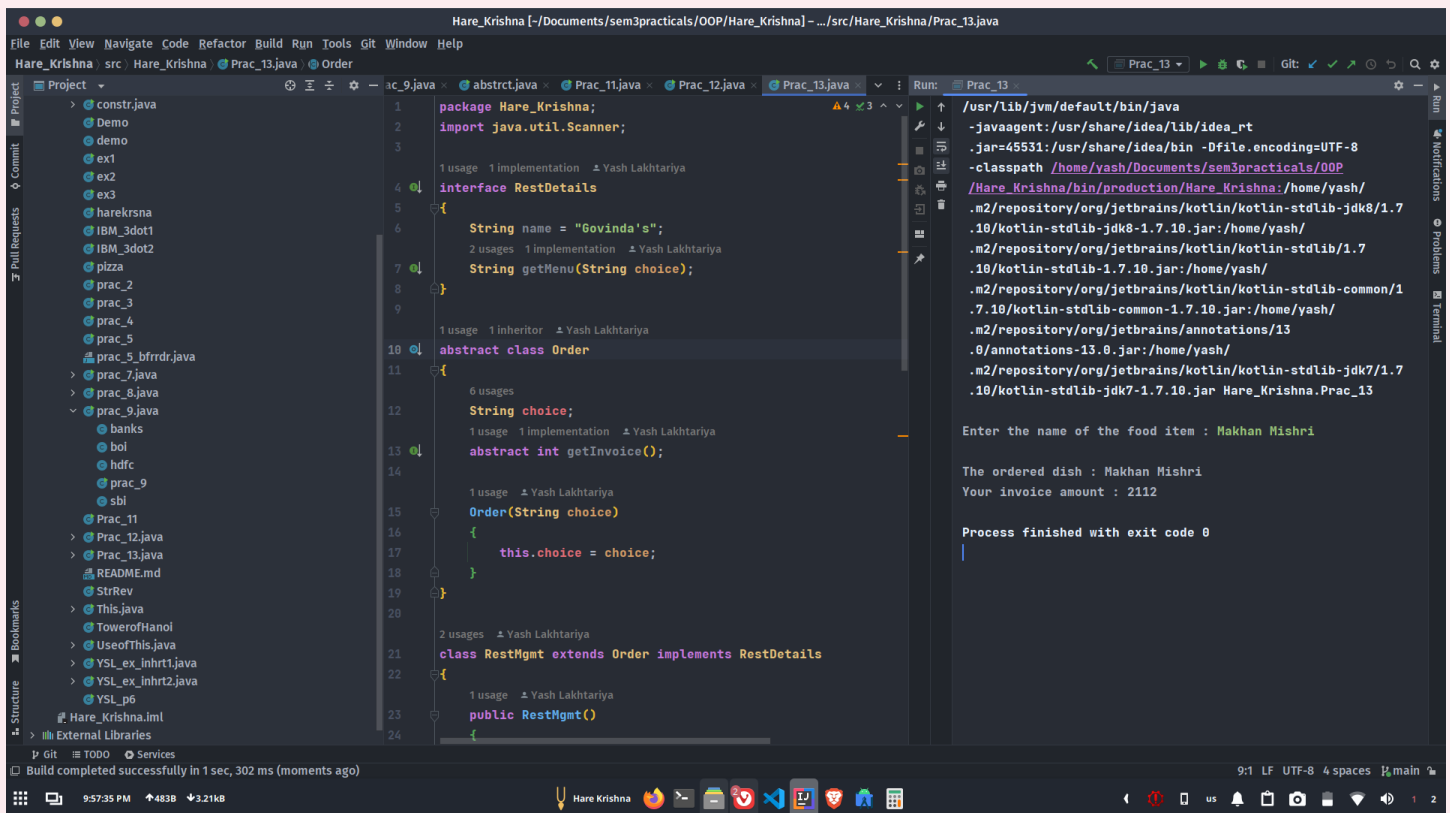
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Output :



```
package Hare_Krishna;
import java.util.Scanner;

interface RestDetails {
    String name = "Govinda's";
    String getMenu(String choice);
}

abstract class Order {
    String choice;
    abstract int getInvoice();
}

class RestMgmt extends Order implements RestDetails {
    public RestMgmt() {
        this.choice = choice;
    }
}
```

Run: /usr/lib/jvm/default/bin/java  
-javaagent:/usr/share/idea/lib/idea\_rt  
-jar=45531:/usr/share/idea/bin -Dfile.encoding=UTF-8  
-classpath /home/yash/Documents/sem3practicals/OOP/Hare\_Krishna/bin/production/Hare\_Krishna:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk8/1.7.10/kotlin-stdlib-jdk8-1.7.10.jar:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib/1.7.10/kotlin-stdlib-1.7.10.jar:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-common/1.7.10/kotlin-stdlib-common-1.7.10.jar:/home/yash/.m2/repository/org/jetbrains/annotations/13.0/annotations-13.0.jar:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk7/1.7.10/kotlin-stdlib-jdk7-1.7.10.jar Hare\_Krishna.Prac\_13

Enter the name of the food item : Makhan Mishri

The ordered dish : Makhan Mishri  
Your invoice amount : 2112

Process finished with exit code 0