LAB PROJECT

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Project Task for OOP

- 1- Your friend wants to open a new restaurant in Cairo but she faced so many problems, one of them is that she wanted to create an application to help her with payment at the cashier counter, so you have agreed to help her and she gave you some tasks to do, You will create a Burger Restaurant Manager that will help calculating the bills for the restaurant.
 - A- The first type of sandwiches will be the normal burger sandwich, each sandwich will have its name, type of meat (Beef or Chicken), type of roll bread (white bread or brown bread) and price. This type of sandwiches will also have only four available additions with separate prices like "extra cheese" or "extra tomato". Help her with activate Windows calculating the total bill.

1-Main Method:

```
Start Page 🔞 DeluxBurger.java 🗴 🖻 BurgerRestaurant.java 🗴 🖻 HealthyBurger.java 🗴 🖻 NormalBurger.java 🗴
package burgerrestaurant;
 3 - import java.util.Scanner;
 5
     public class BurgerRestaurant {
 6
 7 -
         public static void main(String[] args) {
 8
             int n= Begging();
<u>Q.</u>
              if(n==1){
10
                     NormalBurger burger= new NormalBurger();
9
               burger.NormalBurger(burger);
12
                 }else if(n==2){
13
                    HealthyBurger hBurger= new HealthyBurger();
Q.
                    hBurger. HealthyBurger (hBurger);
15
16
                     DeluxBurger dBurger= new DeluxBurger();
                    dBurger. DeluxBurger (dBurger);
18
                 1
19
20
21 🖃
         public static int Begging() {
22
             Scanner sc = new Scanner(System.in);
         System.out.println("Hello at our Burger Resturant"+'\n'+"please enter your order");
23
         System.out.println("1 - Normal Burger "+'\n'+"2 - Healthy Burger"+'\n'+"3 - Delux Burger");
24
       int choice = sc.nextInt() ;
25
26
       return choice;
27
28
```

2-NormalBurger Class:

```
Start Page × 🔊 DeluxBurger.java × 🖻 BurgerRestaurant.java × 🗗 HealthyBurger.java × 🔊 NormalBurger.java ×
Source History | 🔯 👨 - 🗐 - | 🔩 🐶 🖶 📮 | 🔗 😓 | 💇 💇 | ● 🔲 | 👑 🚅
      package burgerrestaurant;
 4  import java.util.Scanner;
      public class NormalBurger {
        //atributes
 8
 9
          private String name;
 10
        private String TypeOfMeet;
 11
        private String TypeOfBread;
       private boolean ExtraCheese;
 12
        private boolean ExtraTomato;
 13
 14
        private boolean withfries;
 15
        private boolean withdrink;
 16
 17
       //constractor
 18
 19
20 =
         public NormalBurger() {
 21
 22
        //setter and getter
 23
 24 📮
          public String getName() {
 25
            return name;
 26
 27
 28 🖃
          public void setName(String name) {
 29
            this.name = name;
 30
 31
 32 📮
          public String getTypeOfMeet() {
 33
            return TypeOfMeet;
 34
 35
 36 📮
          public void setTypeOfMeet(String TypeOfMeet) {
 37
            this.TypeOfMeet = TypeOfMeet;
 38
 39
 40 📮
          public String getTypeOfBread() {
 41
           return TypeOfBread;
 42
 43
 44
          public void setTypeOfBread(String TypeOfBread) {
                                                                                                                    Activa
 45
             this.TypeOfBread = TypeOfBread;
 46
```

```
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 56 📮
           public boolean isExtraTomato() {
 57
              return ExtraTomato;
 58
 59
 60
   早
           public void setExtraTomato(boolean ExtraTomato) {
 61
              this.ExtraTomato = ExtraTomato;
 62
 64
    口
          public boolean isWithFries() {
 65
              return withfries;
 66
 67
 68 -□
          public void setWithFries(boolean WithSalat) {
              this withfries = WithSalat;
 69
 70
 71
 72 🖃
          public boolean isWithDrink() {
 73
              return withdrink:
 74
 75
 76
   巨
          public void setWithDrink(boolean WithCoCaCola) {
 78
              this.withdrink = withdrink;
 79
           //Price Method
    早
           public static double Price( boolean ExtraCheese, boolean ExtraTomato, boolean withfries, boolean withdrink) {
 80
 81
              int price=50;
 82
              int PriceOfCheese=5;
 83
              int priceOfTomato=5;
 84
              int priceOfFries=10;
 85
              int priceOfDrink=10;
 86
              if (ExtraCheese) {
 87
                  System.out.println("you add extra cheese ,it cost 5$");
 88
                price+= PriceOfCheese;
 89
               }if(ExtraTomato) {
 90
                   System.out.println("you add extra tomato ,it cost 5$");
 91
                  price+= priceOfTomato;
               }if(withfries){
 93
                   System.out.println("you add extra fries ,it cost 10$");
                 price+= priceOfFries;
 95
               }if(withdrink){
                   System.out.println("you add extra drink ,it cost 10$");
 97
                 price += priceOfDrink;
 98
                                                                                                                       Activate V
 99
              return price;
                                                                                                                       Go to Settings
100
```

باقي الكود كلاس النورمال مع الاوت بوت عند اختياره- ياكود كلاس النورمال مع الاوت بوت عند اختياره-

```
( ) v
Start Page X 🖻 DeluxBurger.java X 🐧 BurgerRestaurant.java X 🗗 HealthyBurger.java X 🖹 NormalBurger.java X
Source History | 🚱 💀 + 💀 + 💆 🞝 🗗 📮 | 🚱 😓 | 💇 💇 | ● 🔲 | 👑 🚅
               public static void NormalBurger (NormalBurger n) {
102
                  NormalBurger burger= new NormalBurger();
103
                Scanner sc = new Scanner(System.in);
104
            System.out.println(" would you like chicken or beef??");
105
                 burger.setTypeOfMeet(sc.nextLine());
106
                 System.out.println(" would you likewhite bread or brown bread??");
107
                 burger.setTypeOfBread(sc.nextLine());
                  System.out.println(" would you like extra additions ??");
109
                  String ad=sc.nextLine();
110
                  if(ad.equalsIgnoreCase("yes")){
                      System.out.println("what do u want??"+'\n'+"1- extra cheese"+'\n'+"2 - extra tomato"+'\n'+"3 - drink "+'\n'+"4 - fries"+'\n'+"u can choo
111
112
                      String addition = sc.nextLine();
113
                      if(addition.contains("1")){
114
                          burger.setExtraCheese(true);
                      } if(addition.contains("2")){
116
                         burger.setExtraTomato(true);
117
                      } if (addition.contains("3")){
118
                         burger.setWithDrink(true);
119
                      }if (addition.contains("4")){
 120
                          burger.setWithFries(true);}}
       System.out.println("your total prise is "+burger.Price(burger.isExtraCheese(), burger.isExtraTomato(), burger.isWithFries(), burger.isWithDrink()));
 <u>@</u>
122
        <
Output X
   Hello at our Burger Resturant
    please enter your order
    1 - Normal Burger
    2 - Healthy Burger
    3 - Delux Burger
    would you like chicken or beef??
    beef
    would you likewhite bread or brown bread??
    brown
     would you like extra additions ??
    yes
    what do u want??
    1- extra cheese
    2 - extra tomato
    3 - drink
    4 - fries
    u can choose mare than one
                                                                                                                  Activate Windows
    your total prise is 55.0
    BUILD SUCCESSFUL (total time: 13 seconds)
```

B- The second type of sandwiches will be "Healthy Burger" and it is exactly the same except for the roll type bread will be only "brown" and also there will be only two additions for this kind of sandwich.

-with output test:

```
Start Page 🛛 🗷 DeluxBurger.java 🔻 🚳 BurgerRestaurant.java 🔻 🚳 HealthyBurger.java 🔻 🚳 NormalBurger.java 🗴
Source History | 🕝 💀 - 🗐 - | 🧖 👯 👺 🖶 📮 | 🍄 😓 | 🗐 🗐 | 📵 🔲 | 🔮 🚅
    package burgerrestaurant;
4  import java.util.Scanner;
5
6 📮 /**
8
      * @author Haneenahmedawadmoham
9
10
    public class HealthyBurger extends NormalBurger {
11
        private final String TypeOfBread="brown";
12
13 📮
       public static void HealthyBurger(HealthyBurger h) {
14
              HealthyBurger hBurger= new HealthyBurger();
15
             Scanner sc = new Scanner(System.in);
16
         System.out.println("chicken or beef??");
17
               hBurger.setTypeOfMeet(sc.nextLine());
18
                System.out.println("u wanna extra addition??");
19
                 String Add=sc.nextLine();
20
                 if(Add.equalsIgnoreCase("yes")){
                     System.out.println("what do u prefere??"+'\n'+"1- extra cheese"+'\n'+"2 - extra tomato"+'\n'+"3 - drink"+'\n'+"4 - fries"+'\n'+"u can jus
21
22
                     String addtion = sc.nextLine();
23
                     if( addtion .contains("1")){
25
                       hBurger.setExtraCheese(true);
26
27
                     } if( addtion .contains("2")){
28
                       hBurger.setExtraTomato(true);
29
30
                     } if ( addtion .contains("3")){
31
                        hBurger.setWithDrink(true);
32
33
                     }if ( addtion .contains("4")){
34
                        hBurger.setWithFries(true);}
<u>Q</u>
     }System.out.println("your total prise is "+hBurger.Price(hBurger.isExtraCheese(), hBurger.isExtraTomato(), hBurger.isWithFries(), hBurger.isWithDrink())
36
37
```

The output when we choose healthy:

```
* @author Haneenahmedawadmoham
 10
       public class HealthyBurger extends NormalBurger {
           private final String TypeOfBread="brown";
11
Output ×
BurgerManager (run) × BurgerManager (run) #2 × BurgerRestaurant (run) × BurgerRestaurant (run) #2 ×
Hello at our Burger Resturant
    please enter your order
1 - Normal Burger
2 - Healthy Burger
86
     3 - Delux Burger
     chicken or beef??
     beef
     u wanna extra addition??
      what do u prefere??
     1- extra cheese
     2 - extra tomato
3 - drink
     4 - fries
     u can just choose 2 addirtion
     you add extra tomato ,it cost 5$ your total prise is 55.0
     BUILD SUCCESSFUL (total time: 11 seconds)
```

C- The Third type of sandwiches will be "Deluxe Burger", this type will only have one white roll type bread, beef meat and there are two constant additions which are chips and a drink and the total price for this meal is L.E 60.

With output when we choose dulex:

