

1. Problem Statement-

In Burger King there is a menu displayed with price and different combinations. Take the order of the customer and generate a proper bill.

MAIN MENU

1. 1 Veg Burger + 1 coke – 100 Rs.
2. 1 Veg Burger + fries+ coke - 150 Rs.
3. Veg Burger – 30 Rs
4. Total Billing
5. Exit

2. Features

This project contains Class burger_king , 2 methods i.e; order with return type void containing 2 arguments and bill with return type void as well along with 3 arguments.

Here, we took java.util package as we are required to use Scanner and ArrayList inside the source code.

- 1) public static void main() : In main method we took sum variable which will store the grand total value of the order. After this we have created an object for our main class. As order() method is not static so we called the method in main through object reference by passing object and sum(which we have initialized as null) as arguments in the order() method.
- 2) void order() : In this method, we have taken 2 arguments discussed earlier. First one is the object itself as some stuff is taken globally. The other one is sum with integer datatype initialized as null. The main purpose of this method is to design the menu and creating choices making the program user friendly. Furthermore in switch case, whenever the user orders any of the combo, that string got stored in the ArrayList created globally. As per the user requirement, the strings will get added to the ArrayList and at every case bill method is called off with 3 arguments containing quantity of the combo chosen (in integer), the object itself and the sum.
- 3) void bill() : This method does all backend work of the order such as calculating the total amount, taking confirmation of the order and generating a proper bill etc. Firstly, this method asks the confirmation of whether the latest chosen combo is final or not. If the user enters no here then it removes the latest added string in the ArrayList.

Basically, the program is creating the proper bill side by side according to the needs of the user. At last, it stores a string of grand total in ArrayList and reverts back to the main method.

At last, the main method prints all the elements of ArrayList on output screen hence generating the Proper bill which was the main motive of the project.

3. Modules and codes

```
import java.util.*;
public class burger_king
{

    ArrayList<String> S = new ArrayList<>();
    Scanner choice = new Scanner(System.in);

    void order(burger_king obj,int sum)
    {

        System.out.println(" ");
        System.out.println("* MAIN MENU *");
        System.out.println("1) 1 Veg Burger + 1 coke      : 100 Rs");
        System.out.println("2) 1 Veg Burger + fries + coke : 150 Rs");
        System.out.println("3) 1 Veg Burger          : 30 Rs");

        System.out.print("Choose your combo : ");
        int option = choice.nextInt();

        if (option > 3)
        {
            System.out.println("* Not in the MENU *");
            obj.order(obj,sum);
        }
        else
        {

            System.out.print("How much you wanna order : ");
            int quantity = choice.nextInt();
            System.out.println(" ");

            switch (option)
            {
                case 1:
```

```

        System.out.printf("You Ordered %d Veg Burgers with 1 coke
each%n",quantity);
        System.out.println(" ");

        obj.S.add("1 Veg Burger + 1 coke      :    "+quantity+"      :    100 Rs");
        obj.bill(quantity*100, obj,sum);
        break;

        case 2:
        System.out.printf("You Ordered %d Veg burgers with fries and a coke
each%n",quantity);
        System.out.println(" ");

        obj.S.add("1 Veg Burger + fries + coke   :    "+quantity+"      :    150
Rs");
        obj.bill(quantity*150, obj,sum);
        break;

        case 3:
        System.out.printf("You Ordered %d Veg Burgers%n",quantity);
        System.out.println(" ");

        obj.S.add("1 Veg Burger                  :    "+quantity+"      :    30 Rs");
        obj.bill(quantity*30, obj,sum);
        break;

        default:
        System.out.println("* *");

        break;
    }
}

void bill(int a, burger_king obj,int sum)
{

choice.nextLine();
System.out.println("Do you want to confirm your order ?");
System.out.print("Please enter YES for confirm NO for no : ");
String s12 = choice.nextLine();

if(s12.equals("yes"))

```

```

{
    System.out.println(" ");
    System.out.println("Order placed, here is your total bill : "+(sum+a));
    System.out.println(" ");

    sum = sum + a;

    System.out.println("Would you like to order another item ?");
    String abc = choice.nextLine();

    if(abc.equals("yes"))
    {
        obj.order(obj,sum);
    }
    else
    {
        obj.S.add(" ");
        obj.S.add("Grand Total                ::      "+sum+" Rs");
        System.out.println("");
    }
}
else
{
    obj.S.remove(obj.S.size() - 1);
    System.out.println("Order cancelled, Would you like to order another item ?");
    String abc = choice.nextLine();

    if(abc.equals("yes"))
    {
        obj.order(obj,sum);
    }
    else
    {
        obj.S.add(" ");
        obj.S.add("Grand Total                ::      "+sum+" Rs");
        System.out.println(" ");
    }
}

}

public static void main (String[] args)
{

```

```
int sum = 0;
burger_king obj = new burger_king();
System.out.println("");

System.out.println("////* Welcome to Burger King *////");
obj.order(obj,sum);

System.out.println("          Combo          :   Quantity   :           Prize");
System.out.println(" ");

for (int i = 0; i < obj.S.size(); i++)
{
    System.out.println(obj.S.get(i)+" ");
}

System.out.println(" ");
System.out.println("Thanks for coming");

}
}
```

4. Modules and Screenshots

```
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/////* Welcome to Burger King *////

* MAIN MENU *
1) 1 Veg Burger + 1 coke          :    100 Rs
2) 1 Veg Burger + fries + coke    :    150 Rs
3) 1 Veg Burger                   :    30 Rs
Choose your combo : 1
How much you wanna order : 7

You Ordered 7 Veg Burgers with 1 coke each

Do you want to confirm your order ?
Please enter YES for confirm NO for no : yes

Order placed, here is your total bill : 700

Would you like to order another item ?
yes

* MAIN MENU *
1) 1 Veg Burger + 1 coke          :    100 Rs
2) 1 Veg Burger + fries + coke    :    150 Rs
3) 1 Veg Burger                   :    30 Rs
Choose your combo : 3
How much you wanna order : 2

You Ordered 2 Veg Burgers

Do you want to confirm your order ?
Please enter YES for confirm NO for no : no
Order cancelled, Would you like to order another item ?
yes
```

* MAIN MENU *

- 1) 1 Veg Burger + 1 coke : 100 Rs
- 2) 1 Veg Burger + fries + coke : 150 Rs
- 3) 1 Veg Burger : 30 Rs

Choose your combo : 3

How much you wanna order : 5

You Ordered 5 Veg Burgers

Do you want to confirm your order ?

Please enter YES for confirm NO for no : yes

Order placed, here is your total bill : 850

Would you like to order another item ?

yes

* MAIN MENU *

- 1) 1 Veg Burger + 1 coke : 100 Rs
- 2) 1 Veg Burger + fries + coke : 150 Rs
- 3) 1 Veg Burger : 30 Rs

Choose your combo : 2

How much you wanna order : 4

You Ordered 4 Veg burgers with fries and a coke each

Do you want to confirm your order ?

Please enter YES for confirm NO for no : yes

Order placed, here is your total bill : 1450

Would you like to order another item ?

no

Combo	:	Quantity	:	Prize
1 Veg Burger + 1 coke	:	7	:	100 Rs
1 Veg Burger	:	5	:	30 Rs
1 Veg Burger + fries + coke	:	4	:	150 Rs
Grand Total			::	1450 Rs

Thanks for coming

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If user mistakenly chose the wrong combo or cancel all the orders

```
/////* Welcome to Burger King *////

* MAIN MENU *
1) 1 Veg Burger + 1 coke      :    100 Rs
2) 1 Veg Burger + fries + coke :    150 Rs
3) 1 Veg Burger               :     30 Rs
Choose your combo : 5
* Not in the MENU *

* MAIN MENU *
1) 1 Veg Burger + 1 coke      :    100 Rs
2) 1 Veg Burger + fries + coke :    150 Rs
3) 1 Veg Burger               :     30 Rs
Choose your combo : 3
How much you wanna order : 6

You Ordered 6 Veg Burgers

Do you want to confirm your order ?
Please enter YES for confirm NO for no : no
Order cancelled, Would you like to order another item ?
no

          Combo          :    Quantity    :          Prize

Grand Total                ::          0 Rs

Thanks for coming

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```


5. Conclusion

This project concludes how it can help mankind to make their work easier and efficient and also provide us with the glimpse of how automated machine works in practical life.

6. Future scope

This project is the best primitive example on how these burger kings, pizza hut, and many more will work in coming future. This will reduce the human effort and will increase the efficiency of the work as well which will lead to great productivity of the business and hence will help in growth of these types of work places.