

FOOD BILLING SYSTEM

JAVA CODE:

FILE NAME: Bean

CODE:

```
import java.util.ArrayList;

public class Bean
{
    public static ArrayList<OrderList> soru = new ArrayList<OrderList>();

    public static ArrayList<Menu> menuCard = new ArrayList<Menu>();

    public Bean() {

        soru = new ArrayList<OrderList>();

        menuCard = new ArrayList<Menu>();

    }
}
```

FILE NAME: Menu

CODE:

```
public class Menu
{
    private String itemName = null;
```

```
private int itemNo = 0;
```

```
private int price = 0;
```

```
public String getItemName() {
```

```
    return itemName;
```

```
}
```

```
public void setItemName(String itemName) {
```

```
    this.itemName = itemName;
```

```
}
```

```
public int getItemNo() {
```

```
    return itemNo;
```

```
}
```

```
public void setItemNo(int itemNo) {
```

```
    this.itemNo = itemNo;
```

```
}
```

```
public int getPrice() {
```

```
    return price;
```

```
}
```

```
public void setPrice(int price) {
```

```
    this.price = price;
```

```
}
```

```
}
```

FILE FILE NAME: Order

CODE:

```
import java.util.ArrayList;
import java.util.Scanner;
public class Order extends Menu {
    public static void addToCart()
    {
        System.out.println("Order Please !!");

        Scanner input = new Scanner(System.in);

        System.out.println("Enter the no of orders: ");

        int no_of_orders = input.nextInt();

        ArrayList<OrderList> soru = Bean.soru;

        for(int i=0; i < no_of_orders;i++)
        {
            int itemIndex = i + 1;

            System.out.println("Enter the Item No "+ itemIndex +":");

            int itemNo = input.nextInt();

            Menu itemMatched = checkMatch(itemNo);

            if(itemMatched != null)
```

```
{

    OrderList orderList = new OrderList();

    orderList.setMenuObj(itemMatched);

    System.out.println("Enter the quantity :");

    int quantity = input.nextInt();

    orderList.setQuantity(quantity);

    soru.add(orderList);

}
else
{
    System.out.println("Please enter valid item number");

    i--;
}
}

System.out.println("Order Taken Is Completed !!!");
}
```

```

public static Menu checkMatch(int itemNo)
{
    ArrayList<Menu> menuCard = Bean.menuCard;

    for(int menuCardIndex = 0; menuCardIndex < menuCard.size();
menuCardIndex++)
    {
        Menu _menu = menuCard.get(menuCardIndex);

        if(_menu.getItemNo() == itemNo)
        {
            return _menu;
        }
    }

    return null;
}
}

```

FILE NAME: OrderList

CODE:

```

public class OrderList
{
    private Menu menuObj = null;

    private int quantity = 0;

```

```
private int total = 0;
```

```
public Menu getMenuObj()  
{  
    return menuObj;  
}
```

```
public void setMenuObj(Menu menuObj)  
{  
    this.menuObj = menuObj;  
}
```

```
public int getQuantity()  
{  
    return quantity;  
}
```

```
public void setQuantity(int quantity)  
{  
    this.quantity = quantity;  
}
```

```
public int getTotal()  
{  
    return total;  
}
```

```
    }

    public void setTotal(int total)
    {
        this.total = total;
    }
}
```

FILE NAME: Bill

CODE:

```
import java.util.ArrayList;

public class Bill
{
    public static void generateBill()
    {
        int total = 0;

        ArrayList<OrderList> soru = Bean.soru;

        for(int i = 0; i < soru.size(); i++)
        {
            OrderList order = soru.get(i);

            total = total + ( order.getMenuObj().getPrice() *
order.getQuantity());
        }
    }
}
```

```
        System.out.println("The Total Bill Amount Is : "+total);
    }
}
```

FILE NAME: food_billing

CODE:

```
import java.util.ArrayList;
import java.util.Scanner;
```

```
public class food_billing {

    public static ArrayList<Menu> menuCard = Bean.menuCard;

    public static void declareMenu()
    {
        Menu menu1 = new Menu();

        menu1.setItemName("AAA");
        menu1.setItemNo(100);
        menu1.setPrice(100);
        menuCard.add(menu1);

        Menu menu2 = new Menu();

        menu2.setItemName("BBB");
        menu2.setItemNo(200);
```



```

        menu2.setPrice(200);
        menuCard.add(menu2);

        Bean.menuCard = menuCard;
    }

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        new Bean();

        declareMenu();

        System.out.println("Menu Card");

        for(int i = 0; i < menuCard.size(); i++)
        {
            Menu _menu = menuCard.get(i);

            System.out.println(_menu.getItemNo()+"
"+_menu.getItemName()+" "+_menu.getPrice());
        }

        while (true)
        {

```

```
Order.addToCart();
```

```
Bill.generateBill();
```

```
System.out.println("Press 1 to Continue...");
```

```
int choice = input.nextInt();
```

```
if(choice == 1)
```

```
{
```

```
    new Bean();
```

```
    declareMenu();
```

```
    continue;
```

```
}
```

```
break;
```

```
}
```

```
System.out.println("tq");
```

```
}
```

```
}
```

OUTPUT:

```
<terminated> food_billing [Java Application] /Library/Java/Java
Menu Card
100 AAA 100
200 BBB 200
300 CCC 300
Order Please !!
Enter the no of orders:
2
Enter the Item No 1:
100
Enter the quantity :
3
Enter the Item No 2:
200
Enter the quantity :
2
Order Taken Is Completed !!!
The Total Bill Amount Is : 700
Press 1 to Continue...
1
Order Please !!
Enter the no of orders:
1
Enter the Item No 1:
123
Please enter valid item number
Enter the Item No 1:
100
Enter the quantity :
3
Order Taken Is Completed !!!
The Total Bill Amount Is : 300
Press 1 to Continue...
2
THANKYOU FOR TRUSTING US WITH YOUR ORDER :)
```