

**DON BOSCO INSTITUTE OF TECHNOLOGY**

**KURLA,MUMBAI 400070**

**SUBJECT :- SKILL LAB : C++ AND JAVA PROGRAMMING 2021**

**MINI PROJECT FOR SEMESTER III**



**MINI PROJECT TOPIC : SUPERMARKET BILLING**

**INSTITUTE NAME : DON BOSCO INSTITUTE OF TECHNOLOGY**

**DEPARTMENT: EXTC**

**CLASS:SE**

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**Table Of Contents:**

SR.NO	TOPICS
1.	INTRO
2.	CODE
3.	OUTPUT
4.	APPLICATIONS

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## **INTRODUCTION :**

Our project name is supermarket billing. Supermarket billing system is used to reduce the requirement of human efforts in calculating bill especially for huge products.

In small shops it is not too hard to keep track of products purchased and add the value too. However this case does not hold true for large businesses. It becomes very hard to keep track of products available, Having a large database helps to do so. Also in such huge shops it is not easy to Make a bill by adding each and every product . This Results in a loss of time and slows things down to a great extent. So we have made a program which displays the available products at a shop and using those products taken by the customer and makes a bill of the products purchased. This method saves a lot of time of both the customer and the shopkeeper. It also saves time of customers and employees in managing the amount of products available. The billing database is a vast collection of product name, price and other product specific data. A product when billed is searched from the database and its price is added to the bill based upon the product quantity. This helps to keep track of the products as well as display other products available to customer. As a result it helps the employees to helps for easy handling of the market.

Implementation :

Following was the code used for our project Supermarket Billing

```
import java.util.arraylist;
import java.util.list;
import java.util.scanner;

class product {
    private string pname;
    private int qty;
    private double price;
    private double totalprice;

    product(string pname, int qty,
            double price, double totalprice) {
        this.pname = pname;
        this.qty = qty;
        this.price = price;
        this.totalprice = totalprice;
    }

    public string getpname() {
        return pname;
    }
}
```

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```

public int getqty() {
    return qty;
}

public double getprice() {
    return price;
}

public double gettotalprice() {
    return totalprice;
}

```

```

public static void displayformat() {
    system.out.print(
        "\nname    quantity    price    total price\n");
}

```

```

public void display() {
    system.out.format("%-9s %8d %10.2f %10.2f\n",
        pname, qty, price, totalprice);
}
}

```

```

public class supermarketbilling {
    public static void main(string[] args) {
        system.out.println("welcome to apna bazaar");
        system.out.println("the products available today are : product    quantity");
        system.out.println("                toothpaste    3");
        system.out.println("                soap    5");
        system.out.println("                toothbrush    3");
        system.out.println("                shampoo    2");
        system.out.println("                biscuits    6");
    }
}

```

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system.out.println("teacups	3");
system.out.println("scrubber	7");
system.out.println("pens	8");
system.out.println("herbal tea	3");
system.out.println("milk powder	4");
system.out.println("chocolates	8");
system.out.println("coffee powder	5");
system.out.println("waterbottle	7");
system.out.println("charger	4");
system.out.println("spoons	8");
system.out.println("mattress	6");
system.out.println("coffee machine	3");

```
string productname = null;
```

```
int quantity = 0;
```

```
double price = 0.0;
```

```
double totalprice = 0.0;
```

```
double overallprice = 0.0;
```

```
char choice = '\0';
```

```
scanner scan = new scanner(system.in);
```

```
list<product> product = new arraylist<product>();
```

```
do {
```

```
    system.out.println("enter product details,");
```

```
    system.out.print("name: ");
```

[Type here]

```

productname = scan.nextLine();
system.out.print("quantity: ");
quantity = scan.nextInt();
system.out.print("price (per item): ");
price = scan.nextDouble();

totalprice = price * quantity;

overallprice += totalprice;

product.add( new product(
    productname, quantity, price, totalprice) );

system.out.print("want to add more item? (y or n): ");
choice = scan.next().charAt(0);

scan.nextLine();
} while (choice == 'y' || choice == 'Y');

product.displayformat();
for (product p : product) {
    p.display();
}

system.out.println("\ntotal price = " + overallprice);
system.out.println("thank you for shopping with us,we hope to see you again.");

scan.close();
}

```

[Type here]

}

OUTPUT :

[Type here]



```

Welcome to Apna Bazaar
The products available today are :
Product                                Quantity
Toothpaste                             3
Soap                                    5
Toothbrush                             3
Shampoo                                 2
Biscuits                               6
Teacups                                3
Scrubber                               7
Pens                                    8
Herbal Tea                             3
Milk Powder                             4
Chocolates                             8
Coffee Powder                           5
Waterbottle                            7
Charger                                 4
Spoons                                 8
Mattress                               6
Coffee machine                          3

Enter product details,
Name: Soap
Quantity: 3
Price (per item): 33
Want to add more item? (y or n): y
Enter product details,
Name: Pens
Quantity: 5
Price (per item): 8
Want to add more item? (y or n): n

|
Name      Quantity    Price    Total Price
Soap           3       33.00       99.00
Pens          5        8.00       40.00

Total Price = 139.0
Thank you for Shopping with us,We hope to see you again.

```

## ADVANTAGES:

The system reduces much of human efforts in calculating bill especially for huge products

It helps save money and resources of organization and excludes use of paper or sheets in making the bill

It can detect the product information and the price of the product

Using Our program helps to save time

This program provides accuracy and is faultless in billing calculations

helps to simply products available at store along with the quantity

[Type here]

It is flexible and user friendly

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