

# Super Market Billing System

*# Key Requirements:*

*# The system must allow for multiple items to be processed in a single transaction.*

*# Conditional statements should be used to apply discounts based on criteria (e.g., total amount, item type, or promotions).*

*# The program should calculate and display the subtotal, any discounts applied, and the final total amount due.*

*# The itemized bill should display the name, quantity, price of each item, and the final total after discounts.*

*# Loops should be utilized to handle continuous input of items until the billing process is complete.*

*# These are the products available for customers to buy*

```
products = {"Oats" : 163,  
"Peanut Butter" : 362,  
"Coffee Powder" : 460,  
"Green Tea" : 454,  
"Fruit Jam" : 238,  
"Corn Flakes" : 300,  
"Apples" : 170,  
"Oranges" : 80,  
"Multi Grain Bread" : 70,  
"Butter" : 122,  
"Honey" : 224,  
"Soft Drink" : 96,  
"Cookies" : 163,  
"Milk" : 74,  
"Mixed Fruit Juice" : 120}
```

*# Welcome message will be printed at the time of output*

```
print("-"*15,"Welcome To SuperMart","-"*15,"\n")
```

*# This while loop will be used for next person in the queue*

```
while True:
```

*# These are some variables to be used later in the code*

```
amount = 0  
discount = 0  
cart = {}
```

*# Customer's Information*

```
name = input("Please enter your name: ")  
ph_no = input("Please enter your phone number: ")
```

```

# printing the product list using for loop
print("\n", "-"*7, "Product List" , "-"*7)

# as our products are stored inside a dictionary
# we are using a for loop
for i, j in products.items():
    print(" "*3, i, ":", j)

# This while loop will be used to repeat
# certain line of code for the customers
while True:

    # call for the products by the customers
    # title is used to convert input into each word capital
    # as some of the products have two words in it
    product = input(f"Enter the product name you wish to buy OR (q
to Quit): ").title()

    # in case customer choose to quit
    if product.lower() == "q":
        break

    # in case customer forgot to input anything
    elif product == "":
        print("You have not entered the product name.")
        print("Please choose a product name.")
        continue

    # call for the quantity of products
    quantity = float(input(f"Enter the quantity of the {product}:

"))

    # this will help to print product price
    # and their quantity all together
    val = []
    val.append(products[product])
    val.append(quantity)
    val.append(quantity*products[product])
    cart[product] = val

    # billing amount calulated
    amount += products[product] * quantity

    # to add more products to the cart
    repeat = input("Do you want to add more products? (Yes/No): ")

```

```

# in case of no need to add more products
if repeat.capitalize() == "No":
    break

# in case customer forgot to input anything
elif repeat == "":
    print("You have not entered anything.")
    print("Please choose either Yes or No")
    repeat = input("Do you want to add more products?
(Yes/No): ")

# Discount offered for different amount
if amount <= 500:
    discount = 0
elif amount <= 1000:
    discount = 0.05
elif amount <= 3000:
    discount = 0.10
else:
    discount = 0.15

# bill amount calculation after
# discount applied
bill_amount = amount - (amount * discount)
dis_amount = round((amount * discount),2)

# Now comes the output part
# this will be the first line of our billing
# which is cash receipt
print()
print("- *7,"CASH RECEIPT",- *6)
print("- - *10)

# customer's information as the output
print("- *4,"CUSTOMER'S INFORMATION",- *4)
print("- - *10)

print(f"Name: {name.title()}")
print(f"Phone: {ph_no}")
print("- - *10)

# for loop for a dictionary is used to print product price
# and quantity all together
print("- *6,"PURCHASED ITEMS",- *5)
for i ,j in cart.items():
    print(i,"Price:",j[0],"X", round(j[1],2), "=", round(j[2],2) )

```

```

print("- - "*10)

# printing all the desired values
print(f"Total Amount: Rs.{round(amount,2)}")
print(f"Discount Applied: {discount * 100}%")
print(f"Discount Amount: Rs.{dis_amount}")

# final bill amount
print("-"*39)
print(f"Payable Amount: Rs.{round(bill_amount,2)}")
print("-"*39)

# these code of lines can be used for next person in the queue
next_person = input("Do you want to continue for next person?:
").capitalize()
if next_person == "No":
    break

```

----- Welcome To SuperMart -----

Please enter your name: rahul nagra  
Please enter your phone number: +919764318255

----- Product List -----

Oats : 163  
Peanut Butter : 362  
Coffee Powder : 460  
Green Tea : 454  
Fruit Jam : 238  
Corn Flakes : 300  
Apples : 170  
Oranges : 80  
Multi Grain Bread : 70  
Butter : 122  
Honey : 224  
Soft Drink : 96  
Cookies : 163  
Milk : 74  
Mixed Fruit Juice : 120

Enter the product name you wish to buy OR (q to Quit): oats  
Enter the quantity of the Oats: 2  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): milk  
Enter the quantity of the Milk: 2  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): cookies  
Enter the quantity of the Cookies: 3  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): corn flakes

Enter the quantity of the Corn Flakes: 2  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): honey  
Enter the quantity of the Honey: 1  
Do you want to add more products? (Yes/No): no

- - - - - CASH RECEIPT - - - - -  
- - - - -  
- - - - - CUSTOMER'S INFORMATION - - - - -  
- - - - -

Name: Rahul Nagra  
Phone: +919764318255

- - - - -  
- - - - - PURCHASED ITEMS - - - - -

Oats Price: 163 X 2.0 = 326.0  
Milk Price: 74 X 2.0 = 148.0  
Cookies Price: 163 X 3.0 = 489.0  
Corn Flakes Price: 300 X 2.0 = 600.0  
Honey Price: 224 X 1.0 = 224.0

- - - - -  
Total Amount: Rs.1787.0  
Discount Applied: 10.0%  
Discount Amount: Rs.178.7

-----  
Payable Amount: Rs.1608.3  
-----

Do you want to continue for next person?: yes  
Please enter your name: divya  
Please enter your phone number: +919874567890

----- Product List -----

Oats : 163  
Peanut Butter : 362  
Coffee Powder : 460  
Green Tea : 454  
Fruit Jam : 238  
Corn Flakes : 300  
Apples : 170  
Oranges : 80  
Multi Grain Bread : 70  
Butter : 122  
Honey : 224  
Soft Drink : 96  
Cookies : 163  
Milk : 74  
Mixed Fruit Juice : 120

Enter the product name you wish to buy OR (q to Quit): coffee powder  
Enter the quantity of the Coffee Powder: 1  
Do you want to add more products? (Yes/No): yes

Enter the product name you wish to buy OR (q to Quit): green tea  
Enter the quantity of the Green Tea: 2  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): milk  
Enter the quantity of the Milk: 1  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): apples  
Enter the quantity of the Apples: 2  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): mixed fruit  
juice  
Enter the quantity of the Mixed Fruit Juice: 2  
Do you want to add more products? (Yes/No): no

- - - - - CASH RECEIPT - - - - -  
- - - - -  
- - - - - CUSTOMER'S INFORMATION - - - - -  
- - - - -

Name: Divya  
Phone: +919874567890

- - - - -  
- - - - - PURCHASED ITEMS - - - - -  
Coffee Powder Price: 460 X 1.0 = 460.0  
Green Tea Price: 454 X 2.0 = 908.0  
Milk Price: 74 X 1.0 = 74.0  
Apples Price: 170 X 2.0 = 340.0  
Mixed Fruit Juice Price: 120 X 2.0 = 240.0

- - - - -  
Total Amount: Rs.2022.0  
Discount Applied: 10.0%  
Discount Amount: Rs.202.2

-----  
Payable Amount: Rs.1819.8  
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Do you want to continue for next person?: yes  
Please enter your name: nitin singh  
Please enter your phone number: +919732145688

----- Product List -----

Oats : 163  
Peanut Butter : 362  
Coffee Powder : 460  
Green Tea : 454  
Fruit Jam : 238  
Corn Flakes : 300  
Apples : 170  
Oranges : 80  
Multi Grain Bread : 70  
Butter : 122

Honey : 224  
Soft Drink : 96  
Cookies : 163  
Milk : 74  
Mixed Fruit Juice : 120

Enter the product name you wish to buy OR (q to Quit): coffee powder  
Enter the quantity of the Coffee Powder: 3  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): milk  
Enter the quantity of the Milk: 3  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): corn flakes  
Enter the quantity of the Corn Flakes: 3  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): multi grain bread  
Enter the quantity of the Multi Grain Bread: 3  
Do you want to add more products? (Yes/No): yes  
Enter the product name you wish to buy OR (q to Quit): peanut butter  
Enter the quantity of the Peanut Butter: 3  
Do you want to add more products? (Yes/No): no

- - - - - CASH RECEIPT - - - - -  
- - - - -  
- - - - - CUSTOMER'S INFORMATION - - - - -  
- - - - -

Name: Nitin Singh  
Phone: +919732145688

- - - - -  
- - - - - PURCHASED ITEMS - - - - -  
Coffee Powder Price: 460 X 3.0 = 1380.0  
Milk Price: 74 X 3.0 = 222.0  
Corn Flakes Price: 300 X 3.0 = 900.0  
Multi Grain Bread Price: 70 X 3.0 = 210.0  
Peanut Butter Price: 362 X 3.0 = 1086.0  
- - - - -

Total Amount: Rs.3798.0  
Discount Applied: 15.0%  
Discount Amount: Rs.569.7

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Payable Amount: Rs.3228.3  
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Do you want to continue for next person?: no