 # Self Ordering Counter System

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# Import pandas for structured display of receipt
import pandas as pd

# Initialize the order serial number and control variable for repeating orders
sr_no = 1
repeat = "yes"
print("Self Ordering Counter")

# List to hold ordered item details
order_items = []

# Start order loop
while (repeat == "yes"):
  total_amount = 0
  orderedQty = price = name = 0
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# Collect customer details
customer_name = str(input("Enter your name :"))
phone_number = int(input("Enter your mobile number without country code :"))
gender = str(input("Gender : "))

# Greet customer based on gender
if (gender == "male" or gender == "Male"):
    print(f"Hello Mr. {customer_name} . \nWhat would you like to have for today?")
else:
    print(f"Hello Ms/Mrs. {customer_name} . \nWhat would you like to have for today?")

# Display menu
print("*" * 5, "Menu items", "*" * 5)
menu = [
    {"sr_no": 1, "name": "Whole Milk (1 Gallon)", "price": 3.49},
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    {"sr_no": 2, "name": "White Bread (Loaf)", "price": 2.49},
    {"sr_no": 3, "name": "Brown Eggs (Dozen)", "price": 3.29},
    {"sr_no": 4, "name": "Chicken Breast (per lb)", "price": 5.29},
    {"sr_no": 5, "name": "Fuji Apples (per lb)", "price": 1.49}
]

print("------ Restaurant Menu ------")
for item in menu:
    print(f"{item['sr_no']} {item['name']:25} ${item['price']:.2f}")
    sr_no += 1

# Get initial item order
srNoInput = int(input("Enter serial number of product you want to order:"))
discount = 0

# Check valid serial number
if (srNoInput > 5):
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    print("Please enter serial number from 1 to 5.")
    srNoInput = int(input("Enter serial number of product you want to order:"))
    if (srNoInput == 2):
        discount = 0.05
else:
    if (srNoInput == 2):
        discount = 0.05

    # Process item order
    orderedQty = int(input("Enter quantity to order:"))
    arrayNum = srNoInput - 1
    price = menu[arrayNum]['price']
    name = menu[arrayNum]['name']

    print(f"Ordered Item: {name}, Quantity: {orderedQty}, Price: ${price}, Discount: {discount*100}%")
    total_amount = float(price) * orderedQty
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print(f"Sub Total: ${total_amount}")
print(f"Discount {discount*100}%: ${float(total_amount * discount)}")

# Apply discount
total_amount = total_amount - round(float(total_amount * discount), 2)
new_total_amount = total_amount

# Append order to order list
order_items.append({
    "item_sr_no": menu[arrayNum]['sr_no'],
    "item_name": name,
    "sales_price": price,
    "ordered_qty": orderedQty,
    "discount %": discount * 100,
    "sub_total": f"${new_total_amount:.2f}"
})
```

```
# Ask for more orders
repeatInput = str(input("Would you like to order more? (yes/no):"))
while repeatInput == "yes":
    orderedQty = price = name = 0
    srNoInput = int(input("Enter serial number of product you want to order:"))

    if (srNoInput > 5):
        print("Please enter serial number from 1 to 5.")
        srNoInput = int(input("Enter serial number of product you want to order:"))
        if (srNoInput == 2):
            discount = 0.05
    else:
        if (srNoInput == 2):
            discount = 0.05

        orderedQty = int(input("Enter quantity to order:"))
```

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arrayNum = srNoInput - 1

price = menu[arrayNum]['price']

name = menu[arrayNum]['name']


print(f"Ordered Item: {name}, Quantity: {orderedQty}, Price: ${price}, Discount: {discount*100}%")

total_amount += float(price) * orderedQty

print(f"Sub Total: ${float(price) * orderedQty}")

print(f"Discount {discount*100}%: ${float((price * orderedQty) * discount)}")


new_total_amount = total_amount - round(float(total_amount * discount), 2)


order_items.append({

    "item_sr_no": menu[arrayNum]['sr_no'],

    "item_name": name,

    "sales_price": price,

    "ordered_qty": orderedQty,

    "discount %": discount * 100,
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            "sub_total": f"${(price * orderedQty) - (price * orderedQty) * discount:.2f}"
        })

        repeatInput = str(input("Would you like to order more? (yes/no):"))

# Print receipt if no more items to order
if (repeatInput == "no"):
    print(f"\n::: Receipt :::")
    df = pd.DataFrame(order_items)
    print(df.to_string(index=False))

    print(f"\nTotal amount = ${new_total_amount:.2f}")
    print("Please visit again. Thank you  ")

    # Ask for new order
    repeat = input("New Order? (yes/no):")
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        if repeat != "yes":

            break
```

Demonstration

Enter your name : John
Enter your mobile number without country code : 9876543210
Gender : Male
Enter serial number of product you want to order: 2
Enter quantity to order: 2
Would you like to order more? (yes/no): yes
Enter serial number of product you want to order: 1
Enter quantity to order: 1
Would you like to order more? (yes/no): no
New Order? (yes/no): no

Input / Output

Hello Mr. John.

What would you like to have for today?

***** Menu items *****

------ Restaurant Menu ------

1 Whole Milk (1 Gallon) $3.49

2 White Bread (Loaf) $2.49

3 Brown Eggs (Dozen) $3.29

4 Chicken Breast (per lb) $5.29

5 Fuji Apples (per lb) $1.49

Ordered Item: White Bread (Loaf), Quantity: 2, Price: $2.49, Discount: 5.0%

Sub Total: $4.98

Discount 5.0%: $0.249

Ordered Item: Whole Milk (1 Gallon), Quantity: 1, Price: $3.49, Discount: 0%

Sub Total: $3.49

Discount 0%: $0.0

::: Receipt :::

item_sr_no	item_name	sales_price	ordered_qty	discount %	sub_total
2	White Bread (Loaf)	2.49	2	5.0	$4.73
1	Whole Milk (1 Gallon)	3.49	1	0.0	$3.49

Total amount = $8.22

Please visit again. Thank you