

Institute Name : Government Arts & Science College

(Co-Education) – Avinashi

Project Name : Burger Billing System using Python

Submission to : Internz Learn

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Project Title :

Burger Billing System Using Python

Introduction :

Billing System is a Software Application This project is helps to track Customer needs and it can able to make the total bill of Amount from the Customers.

Tool :

I have made this Project by the IDLE (Integrated Development Environment)Software it is one of the Python Compiler.

Resources:

I have collected some of the source code by the AI tool Mainly I took for the methods.

Excepted Output :

I Expect the Actual output given the following format.

Actual Output :

It comes the Expected output after the Debugging.

Conclusion :

The billing System project successfully created by reducing manual efforts and minimizing errors.

```

1  #BURGER BILLING SYSTEM USING PYTHON
2
3  #CODE:
4
5  def display_menu():
6      menu = {
7          1: ("Aloo Tikki", 5),
8          2: ("Maharaja", 10),
9          3: ("Mac Special", 15),
10     }
11     print("\nBurger Menu:")
12     for key, (name, price) in menu.items():
13         print(f"{key}. {name} - ${price}")
14     return menu
15
16
17 def get_valid_input(prompt, valid_options):
18     while True:
19         user_input = input(prompt).strip().lower()
20         if user_input in valid_options:
21             return user_input
22         print("Invalid input. Please try again.")
23
24
25 def calculate_bill():
26     menu = display_menu()
27
28     # Select burger
29     while True:
30         try:
31             choice = int(input("\nEnter the number of burger listed out: "))
32             if choice in menu:
33                 burger_name, price = menu[choice]
34                 break
35             else:
36                 print("Invalid choice. Try again.")
37         except ValueError:
38             print("Please enter a valid number.")
39
40     # Get quantity
41     while True:
42         try:
43             quantity = int(input("Enter quantity: "))
44             if quantity > 0:
45                 break
46             else:
47                 print("Quantity must be greater than 0.")
48         except ValueError:
49             print("Please enter a valid number.")
50
51     total = price * quantity
52
53     # Student discount
54     is_student = get_valid_input("Are you a student? (yes/no): ", ["yes", "no"])
55     if is_student == "yes":
56         discount = total * 0.20
57         total -= discount
58     else:
59         discount = 0
60
61     # Delivery charge
62     wants_delivery = get_valid_input("Do you want delivery? (yes/no): ", ["yes", "no"])
63     if wants_delivery == "yes":
64         delivery_charge = total * 0.05

```

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65         total += delivery_charge
66     else:
67         delivery_charge = 0
68
69     # Tip
70     wants_tip = get_valid_input("Do you want to give a tip? (yes/no): ", [
71         "yes", "no"])
72     tip = 0
73     if wants_tip == "yes":
74         while True:
75             try:
76                 tip = int(input("Enter tip amount ($2, $5, or $10): "))
77                 if tip in [2, 5, 10]:
78                     total += tip
79                     break
80                 else:
81                     print("Invalid tip amount. Choose from $2, $5, or $10.")
82             except ValueError:
83                 print("Please enter a valid amount.")
84
85     # Bill summary
86     print("\n----- BILL SUMMARY -----")
87     print(f"Burger: {burger_name} x {quantity} = ${price * quantity}")
88     if discount:
89         print(f"Student Discount: -${discount:.2f}")
90     if delivery_charge:
91         print(f"Delivery Charge: +${delivery_charge:.2f}")
92     if tip:
93         print(f"Tip: +${tip}")
94     print(f"Total Amount: ${total:.2f}")
95     print("-----")
96
97 # Run the billing system
98 calculate_bill()

```

```
1  #OUTPUT
2
3  Burger Menu:
4  1. Aloo Tikki - $5
5  2. Maharaja - $10
6  3. Mac Special - $15
7
8  Enter the number of burger listed out: 1
9  Enter quantity: 5
10 Are you a student? (yes/no): yes
11 Do you want delivery? (yes/no): yes
12 Do you want to give a tip? (yes/no): yes
13 Enter tip amount ($2, $5, or $10): 2
14
15 ----- BILL SUMMARY -----
16 Burger: Aloo Tikki x 5 = $25
17 Student Discount: -$5.00
18 Delivery Charge: +$1.00
19 Tip: +$2
20 Total Amount: $23.00
21 -----
22
23
24
25
26
27
28
29
```