

## MAKE BURGER BILLING SYSTEM USING PYTHON

Make Python code for making a billing system related to Burger.

let's say this is your menu

sr.	name	price
1.	aloo tikki	5\$
2.	maharaja	10\$
3.	mac special	15\$

likewise...

so when your program starts this menu should be shown to the user

now let's say use selected aloo tikki.

after that, you need to ask certain questions before making certain bill

Q1. how many quantity?

Q2. Are you a student? is yes the give 20% discount else no discount

Q3. Do you want delivery or not? if delivery then add 5% as delivery charge else no charge

Q4. Do you want to give a tip? if yes then ask how much? 2\$, 5 \$ or 10\$

after getting all of these questions answers then make a final bill

and here you need to print the bill \*\*

\*\*\*\*\*final bill\*\*\*\*\*

sr.	name	price	quantity	total_price
1.	alootikki	5\$	1	5\$

	5\$
student discount 20%	-1\$
delivery charge 5%	+0.2\$
tip	2\$

total bill 6.2\$

thank you and come again

Extra functionality -----

if you want to make it more robust then make functionality that  
user can order more than one time at a time ( EXTRA )

**CODE:**

```
menu = {
    "aloo tikki": 5,
    "maharaja": 10,
    "mac special": 15
}
```

```
def calculate_bill(order):
```

```
total_price = 0
student_discount = 0
delivery_charge = 0
tip = 0
```

```
for item, details in order.items():
    price = menu[item] * details["quantity"]
    total_price += price
```

```
if details["is_student"]:  
    student_discount += price * 0.20
```

```
if details["delivery"]:  
    delivery_charge += price * 0.05
```

```
tip += details["tip"]
```

```
total_price = total_price - student_discount + delivery_charge + tip
```

return total price

```
def print_bill(order, total_price):
```

```
print("*****final bill*****")
print("sr.\tname\t\tprice\tquantity\ttotal price")
```

```
for idx, (item, details) in enumerate(order.items(), start=1):
```

```
price = menu[item]
total_item_price = price * details["quantity"]
print(f'#{idx}\t{item}\t{price}$\t{details["quantity"]}\t{total_item_price}$')
```

```
print("-----")
```

```
print(f"Total sum of items: {sum(menu[item] * details['quantity'] for item, details in order.items())}$")
```

```
print(f"student discount 20%\t\t\t-{total_price - sum(menu[item] * details['quantity'] for item, details in order.items())}$")
```

```
print(f"delivery charge 5%\t\t\t\t{total_price * 0.05}$")
```

```
print(f"tip\t\t\t\t\t{sum(details['tip'] for _, details in order.items())}$")
```

```
print("-----")
```

```
print(f"total bill\t\t\t\t\t{total_price}$")
```

```
print("\nThank you and come again")
```

```

def main():
    order = {}
    while True:
        print("Menu:")
        for idx, (item, price) in enumerate(menu.items(), start=1):
            print(f"{idx}. {item}\t{price}$")

        choice = input("Enter your choice (number) or 'done' to finish ordering: ")
        if choice.lower() == "done":
            break

        try:
            choice = int(choice)
            if choice < 1 or choice > len(menu):
                raise ValueError
        except ValueError:
            print("Invalid choice. Please enter a valid number.")
            continue

        item = list(menu.keys())[choice - 1]
        if item not in order:
            order[item] = {
                "quantity": 0,
                "is_student": False,
                "delivery": False,
                "tip": 0
            }

        quantity = int(input("Enter quantity: "))
        is_student = input("Are you a student? (yes/no): ").lower() == "yes"
        delivery = input("Do you want delivery? (yes/no): ").lower() == "yes"
        tip = int(input("Do you want to give tip? (2$/5$/10$): "))

        order[item]["quantity"] += quantity
        order[item]["is_student"] = is_student
        order[item]["delivery"] = delivery
        order[item]["tip"] += tip

    total_price = calculate_bill(order)
    print_bill(order, total_price)

if __name__ == "__main__":
    main()

```

## OUTPUT:

```
IDLE Shell 3.12.1
File Edit Shell Debug Options Window Help
Python 3.12.1 (tags/v3.12.1:2305ca5, Dec 7 2023, 22:03:25) [MSC v.1937 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/sopan/Downloads/Billing System.py
Menu:
1. aloo tikki 5$
2. maharaja 10$
3. mac special 15$
Enter your choice (number) or 'done' to finish ordering: 1
Enter quantity: 1
Are you a student? (yes/no): yes
Do you want delivery? (yes/no): no
Do you want to give tip? (2$/5$/10$): 2
Menu:
1. aloo tikki 5$
2. maharaja 10$
3. mac special 15$
Enter your choice (number) or 'done' to finish ordering: done
*****final bill*****
sr.    name    price  quantity  total_price
1.     aloo tikki  5$      1         5$
-----
student discount 20%          -1.0$
delivery charge 5%          +0.30000000000000004$
tip                          2$
-----
total bill                    6.0$

Thank you and come again
>>>
```

Activate Windows  
Go to Settings to activate Windows.

Ln: 10 Col: 0

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