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## **PROJECT REPORT**

# **DRY FRUITS ORDERING SYSTEM**

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## **INTRODUCTION**

Hi, I'm Jidnyesh Pujari and this is my first Python project. I made a simple program that helps people order dry fruits from a store.

The idea was to create something easy where customers can see what's available, pick what they want, and get a total bill. Instead of writing everything by hand, the computer does it all automatically.

I chose this project because my father owns a dry fruits shop and I thought it would be cool to make something practical. Also, it helped me learn Python better because I had to use loops, lists, and calculations.

## **WHAT THE PROGRAM DOES**

My program is pretty simple. Here's what happens:

1. SHOWS MENU First, it shows all the dry fruits with their prices. There are 11 different items like cashew, almonds, pista , etc.
2. YOU PICK ITEMS You type a number to choose what you want. Like if you want cashew, you type 1.
3. CHOOSE QUANTITY Then it asks how much you want - 250g, 500g, 750g, or 1kg. You just type 1, 2, 3, or 4.
4. ADDS TO CART The program adds your item to a shopping cart and shows you what's in it.
5. KEEP SHOPPING OR FINISH You can add more items or type 0 when you're done.
6. SHOWS BILL When you're done, it shows everything you ordered with the total price.
7. CONFIRM ORDER You type "yes" to confirm or "no" to cancel.

## THE PRODUCTS IN MY STORE

I included 11 types of dry fruits:

1. Cashew - Rs. 799 per kg
2. Masala Kaju - Rs. 1299 per kg
3. Peri Peri Cashew - Rs. 1399 per kg
4. Chocolate Cashew - Rs. 1599 per kg
5. Black Pepper Cashew - Rs. 1199 per kg
6. Salted Cashew - Rs. 999 per kg
7. California Almond - Rs. 799 per kg
8. Chocolate Almond - Rs. 1599 per kg
9. Pista - Rs. 1499 per kg
10. Salted Pista - Rs. 1799 per kg
11. Cranberry - Rs. 1999 per kg

I got these prices by looking at my fathers stores. The program also shows price for 250g which is just 1/4th of the kg price.

## HOW I MADE IT

### WHAT I USED

I only used Python. No other software or libraries. Just basic Python that everyone learns.

### THE PRODUCT LIST

I stored all products in a dictionary. Here's how it looks:

```
products = {  
    1: {"name": "Cashew", "price": 799},  
    2: {"name": "Masala Kaju", "price": 1299},  
    3: {"name": "Peri Peri Cashew", "price": 1399},  
    # ... and so on  
}
```

### THE SHOPPING CART

For the cart, I used a list. Every time someone adds something, I put it in the list with the name, weight, and price.

```
cart = []
```

```
cart.append({
```

```
'name': product['name'],
'weight': weight,
'total': total_price
})
```

## CALCULATING PRICE

This was the tricky part. I had to figure out the math:

- If someone picks option 1, they get 1 pack of 250g = 0.25 kg
- If they pick option 2, they get 2 packs = 0.5 kg
- Then I multiply: price per kg × weight = total price packs = 2 # If user chose option 2 weight = packs \* 0.25 # = 0.5 kg total\_price = product['price'] \* weight

## MAIN CODE STRUCTURE

The whole program runs in one big loop:

```
cart = []
```

while True:

```
# Show menu  
# Get user input  
# Add to cart  
# Show cart  
# Or checkout if user types 0
```

## WHAT I LEARNED

This project taught me so much! Here are the main things:

### PROGRAMMING STUFF

DICTIONARIES: I learned how to store data with keys and values. It's really useful.

LISTS: I got better at adding things to lists and going through them.

LOOPS: The while loop was confusing at first but now I understand how to use it to keep a program running.

IF-ELSE: I used a lot of if-elif-else statements to check what the user typed.

TRY-EXCEPT: This was new to me. It's really helpful for catching errors.

### OTHER SKILLS

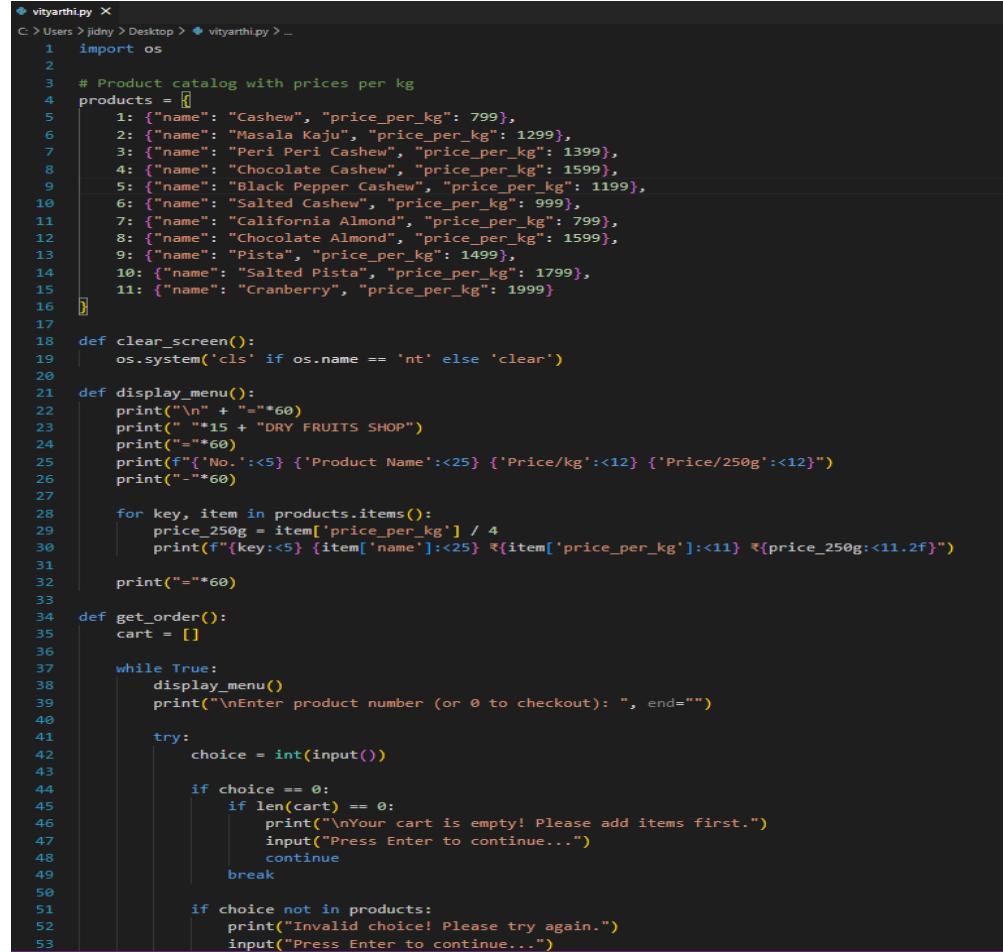
PROBLEM SOLVING: When something didn't work, I had to think about why and try different solutions.

TESTING: I tested my program many times with different inputs to find bugs.

PATIENCE: Sometimes I spent hours on one small problem. But I kept trying and that's important.

DOCUMENTATION: Writing this report helped me understand my own code better.

## SCREENSHOTS



```
vityarthi.py <input>
C:\Users\jidny\Desktop> vityarthi.py <input>
1 import os
2
3 # Product catalog with prices per kg
4 products = [
5     {"name": "Cashew", "price_per_kg": 799},
6     {"name": "Masala Kaju", "price_per_kg": 1299},
7     {"name": "Peri Peri Cashew", "price_per_kg": 1399},
8     {"name": "Chocolate Cashew", "price_per_kg": 1599},
9     {"name": "Black Pepper Cashew", "price_per_kg": 1199},
10    {"name": "Salted Cashew", "price_per_kg": 999},
11    {"name": "California Almond", "price_per_kg": 799},
12    {"name": "Chocolate Almond", "price_per_kg": 1599},
13    {"name": "Pista", "price_per_kg": 1499},
14    {"name": "Salted Pista", "price_per_kg": 1799},
15    {"name": "Cranberry", "price_per_kg": 1999}
16 ]
17
18 def clear_screen():
19     os.system('cls' if os.name == 'nt' else 'clear')
20
21 def display_menu():
22     print("\n" + "*60)
23     print(" *15 + "DRY FRUITS SHOP")
24     print("*60)
25     print(f" {No.}<5} {'Product Name':<25} {'Price/kg':<12} {'Price/250g':<12}")
26     print("-*60)
27
28     for key, item in products.items():
29         price_250g = item['price_per_kg'] / 4
30         print(f" {key}<5} {item['name']:<25} ${item['price_per_kg']:<11} ${price_250g:<11.2f}")
31
32     print("-*60)
33
34 def get_order():
35     cart = []
36
37     while True:
38         display_menu()
39         print("\nEnter product number (or 0 to checkout): ", end="")
40
41         try:
42             choice = int(input())
43
44             if choice == 0:
45                 if len(cart) == 0:
46                     print("\nYour cart is empty! Please add items first.")
47                     input("Press Enter to continue...")
48                     continue
49                     break
50
51             if choice not in products:
52                 print("Invalid choice! Please try again.")
53                 input("Press Enter to continue...")
```

```
 53     input("Press Enter to continue...")
  Click to add a breakpoint
54
55     print("\nSelect quantity:")
56     print("1. 250g")
57     print("2. 500g (2 packs)")
58     print("3. 750g (3 packs)")
59     print("4. 1kg (4 packs)")
60     print("5. Custom quantity (in 250g packs)")
61
62     qty_choice = int(input("\nEnter your choice: "))
63
64     if qty_choice == 1:
65         packs = 1
66     elif qty_choice == 2:
67         packs = 2
68     elif qty_choice == 3:
69         packs = 3
70     elif qty_choice == 4:
71         packs = 4
72     elif qty_choice == 5:
73         packs = int(input("Enter number of 250g packs: "))
74     else:
75         print("Invalid choice!")
76         input("Press Enter to continue...")
77         continue
78
79     weight_kg = packs * 0.25
80     price = products[choice]['price_per_kg'] * weight_kg
81
82     cart.append({
83         'product': products[choice]['name'],
84         'packs': packs,
85         'weight_kg': weight_kg,
86         'price': price
87     })
88
89
90     print(f"\n✓ Added {products[choice]['name']} ({weight_kg}kg) to cart!")
91     input("Press Enter to continue...")
92
93 except ValueError:
94     print("Invalid input! Please enter a number.")
95     input("Press Enter to continue...")
96
97 return cart
98
99 def display_bill(cart):
100     clear_screen()
101     print("\n" + "*60)
102     print(" *20 + "INVOICE")
103     print("*60)
```

```

104     print(f"{'Product':<25} {'Quantity':<15} {'Price':<15}")
105     print("-"*60)
106
107     total = 0
108     for item in cart:
109         print(f"{'item['product']':<25} {"item['weight_kg']"}kg ({item['packs']} packs) ₹{item['price']:.2f}")
110         total += item['price']
111
112     print("-"*60)
113     print(f"{'TOTAL':<40} ₹{total:.2f}")
114     print("-"*60)
115
116     return total
117
118 def main():
119     while True:
120         clear_screen()
121         print("\n" + "="*60)
122         print(" "*10 + "WELCOME TO DRY FRUITS SHOP")
123         print("=*60)
124         print("\n1. View Menu & Place Order")
125         print("2. Exit")
126
127         choice = input("\nEnter your choice: ")
128
129         if choice == '1':
130             cart = get_order()
131             total = display_bill(cart)
132
133             print("\nConfirm Order?")
134             print("1. Yes")
135             print("2. No")
136
137             confirm = input("\nEnter your choice: ")
138
139             if confirm == '1':
140                 print("\n" + "="*60)
141                 print(" "*15 + "ORDER CONFIRMED!")
142                 print("=*60)
143                 print(f"\nTotal Amount: ₹{total:.2f}")
144                 print("\nThank you for your order!")
145                 print("Your order will be delivered soon.")
146                 print("=*60)
147                 input("\nPress Enter to continue...")
148             else:
149                 print("\nOrder cancelled!")
150                 input("Press Enter to continue...")
151
152         elif choice == '2':
153             print("\nThank you for visiting! Have a great day!")
154             break
155
156         else:
157             print("\nInvalid choice! Please try again.")
158             input("Press Enter to continue...")
159
160     if __name__ == "__main__":
161         main()

```

OUTPUT:

```

=====
WELCOME TO DRY FRUITS SHOP
=====

1. View Menu & Place Order
2. Exit

Enter your choice: 1

=====
DRY FRUITS SHOP
=====

No. Product Name          Price/kg    Price/250g
-----
1 Cashew                  ₹799        ₹199.75
2 Masala Kaju             ₹1299       ₹324.75
3 Peri Peri Cashew        ₹1399       ₹349.75
4 Chocolate Cashew         ₹1599       ₹399.75
5 Black Pepper Cashew      ₹1199       ₹299.75
6 Salted Cashew            ₹999        ₹249.75
7 California Almond       ₹799        ₹199.75
8 Chocolate Almond         ₹1599       ₹399.75
9 Pista                   ₹1499       ₹374.75
10 Salted Pista            ₹1799       ₹449.75
11 Cranberry               ₹1999       ₹499.75
-----


Enter product number (or 0 to checkout): 4

Select quantity:
1. 250g
2. 500g (2 packs)
3. 750g (3 packs)
4. 1kg (4 packs)
5. Custom quantity (in 250g packs)

Enter your choice: 1

✓ Added Chocolate Cashew (0.25kg) to cart!
Press Enter to continue...

```

```

=====
INVOICE
=====

Product          Quantity     Price
-----
Chocolate Cashew   0.25kg (1 packs) ₹399.75
-----
TOTAL                      ₹399.75
=====

Confirm Order?
1. Yes
2. No

Enter your choice: 1

=====
ORDER CONFIRMED!
=====

Total Amount: ₹399.75

Thank you for your order!
Your order will be delivered soon.
=====

Press Enter to continue...

```

## CONCLUSION

I'm really happy with how my project turned out. When I started, I didn't know much about Python. But by working on this, I learned so many things.

The program does what it's supposed to do - help people order dry fruits easily. It's simple but it works. And that's what matters for a first project.

Yes, there were problems. Sometimes I got frustrated when things didn't work. But I kept trying and learning from mistakes. That's the best part about programming - you learn by doing.

This project gave me confidence. Now I feel like I can make other programs too. I understand Python much better than before.

If you're a student like me reading this, my advice is: start with something simple. Don't try to make something super complicated. Make it work first, then improve it later.

Overall, this was a great learning experience and I'm proud of what I made.

## REFERENCES

1. Python official website - [python.org](https://www.python.org)
  2. YouTube tutorials on Python basics
  3. My teacher's class notes
  4. Stack Overflow (when I got stuck)
  5. Python documentation for dictionaries and lists
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**END OF REPORT Thank you for reading!**