========== **PROJECT REPORT**==========

DRY FRUITS ORDERING SYSTEM

Submitted By:

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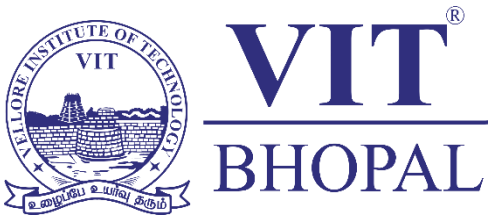

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INTRODUCTION

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

C: > Users > jidny > Desktop > vityarthi.py > ...

```python
import os

# Product catalog with prices per kg
products = {
    1: {"name": "Cashew", "price_per_kg": 799},
    2: {"name": "Masala Kaju", "price_per_kg": 1299},
    3: {"name": "Peri Peri Cashew", "price_per_kg": 1399},
    4: {"name": "Chocolate Cashew", "price_per_kg": 1599},
    5: {"name": "Black Pepper Cashew", "price_per_kg": 1199},
    6: {"name": "Salted Cashew", "price_per_kg": 999},
    7: {"name": "California Almond", "price_per_kg": 799},
    8: {"name": "Chocolate Almond", "price_per_kg": 1599},
    9: {"name": "Pista", "price_per_kg": 1499},
    10: {"name": "Salted Pista", "price_per_kg": 1799},
    11: {"name": "Cranberry", "price_per_kg": 1999}
}

def clear_screen():
    os.system('cls' if os.name == 'nt' else 'clear')

def display_menu():
    print("\n" + "="*60)
    print(" "*15 + "DRY FRUITS SHOP")
    print("="*60)
    print(f"{'No.':<5} {'Product Name':<25} {'Price/kg':<12} {'Price/250g':<12}")
    print("-"*60)

    for key, item in products.items():
        price_250g = item['price_per_kg'] / 4
        print(f"{key:<5} {item['name']:<25} ₹{item['price_per_kg']:<11} ₹{price_250g:<11.2f}")

    print("="*60)

def get_order():
    cart = []

    while True:
        display_menu()
        print("\nEnter product number (or 0 to checkout): ", end="")

        try:
            choice = int(input())

            if choice == 0:
                if len(cart) == 0:
                    print("\nYour cart is empty! Please add items first.")
                    input("Press Enter to continue...")
                    continue
                break

            if choice not in products:
                print("Invalid choice! Please try again.")
                input("Press Enter to continue...")
```

```
53                  input("Press Enter to continue...")
                    continue
55
56              print("\nSelect quantity:")
57              print("1. 250g")
58              print("2. 500g (2 packs)")
59              print("3. 750g (3 packs)")
60              print("4. 1kg (4 packs)")
61              print("5. Custom quantity (in 250g packs)")
62
63              qty_choice = int(input("\nEnter your choice: "))
64
65              if qty_choice == 1:
66                  packs = 1
67              elif qty_choice == 2:
68                  packs = 2
69              elif qty_choice == 3:
70                  packs = 3
71              elif qty_choice == 4:
72                  packs = 4
73              elif qty_choice == 5:
74                  packs = int(input("Enter number of 250g packs: "))
75              else:
76                  print("Invalid choice!")
77                  input("Press Enter to continue...")
78                  continue
79
80              weight_kg = packs * 0.25
81              price = products[choice]['price_per_kg'] * weight_kg
82
83              cart.append({
84                  'product': products[choice]['name'],
85                  'packs': packs,
86                  'weight_kg': weight_kg,
87                  'price': price
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)
```

```
    print(f"{'Product':<25} {'Quantity':<15} {'Price':<15}")
    print("-"*60)

    total = 0
    for item in cart:
        print(f"{item['product']:<25} {item['weight_kg']}kg ({item['packs']} packs) ₹{item['price']:<14.2f}")
        total += item['price']

    print("-"*60)
    print(f"{'TOTAL':<40} ₹{total:.2f}")
    print("="*60)

    return total

def main():
    while True:
        clear_screen()
        print("\n" + "="*60)
        print(" "*10 + "WELCOME TO DRY FRUITS SHOP")
        print("="*60)
        print("\n1. View Menu & Place Order")
        print("2. Exit")

        choice = input("\nEnter your choice: ")

        if choice == '1':
            cart = get_order()
            total = display_bill(cart)

            print("\nConfirm Order?")
            print("1. Yes")
            print("2. No")

            confirm = input("\nEnter your choice: ")

            if confirm == '1':
                print("\n" + "="*60)
                print(" "*15 + "ORDER CONFIRMED!")
                print("="*60)
                print(f"\nTotal Amount: ₹{total:.2f}")
                print("\nThank you for your order!")
                print("Your order will be delivered soon.")
                print("="*60)
                input("\nPress Enter to continue...")
            else:
                print("\nOrder cancelled!")
                input("Press Enter to continue...")

        elif choice == '2':
            print("\nThank you for visiting! Have a great day!")
            break

        else:
            print("\nInvalid choice! Please try again.")
            input("Press Enter to continue...")

if __name__ == "__main__":
    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
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** *****

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