# TECHSHOP, AN ELECTRONIC GADGETS SHOP

## PYTHON ASSIGNMENT

## HARSHINI V

## OUTPUT SCREENSHOTS:

### 1. CUSTOMERS:

**A. INSERT A CUSTOMER**

```
Options:
1. Customers
2. Products
3. Orders
4. OrderDetails
5. Inventory
6. Exit

Enter your choice: 1

1. Insert Customer
2. Delete Customer
3. Calculate Total Orders
4. Get Customer Details
5. Update Customer Info
6. Exit

Enter your choice: 1
Enter First Name: Alen
Enter Last Name: Smith
Enter Email: alen@gmail.com
Enter Phone: 6578926354
Enter Address: 4, St cross street
Customer inserted successfully.
```

**B. DELETE CUSTOMER**

```
1. Insert Customer
2. Delete Customer
3. Calculate Total Orders
4. Get Customer Details
5. Update Customer Info
6. Exit

Enter your choice: 2
Enter Customer ID to delete: 11
Customer deleted successfully.
```

**C. CALCULATE TOTAL ORDERS**

```
1. Insert Customer
2. Delete Customer
3. Calculate Total Orders
4. Get Customer Details
5. Update Customer Info
6. Exit

Enter your choice: 3
Enter Customer ID: 3
Total Orders: 1
```

### D. GET CUSTOMER DETAILS

```
1. Insert Customer
2. Delete Customer
3. Calculate Total Orders
4. Get Customer Details
5. Update Customer Info
6. Exit

Enter your choice: 4
Enter Customer ID: 3
Customer ID: 3
Name: Alice Johnson
Email: alice.johnson@example.com
Phone: 5555555555
Address: 789 Oak St
```

### E. UPDATE CUSTOMER INFO

```
1. Insert Customer
2. Delete Customer
3. Calculate Total Orders
4. Get Customer Details
5. Update Customer Info
6. Exit

Enter your choice: 5
Enter Customer ID: 3
Enter New Email: alice@gmail.com
Enter New Phone: 3647895763
Enter New Address: 6,Oak street
Customer information updated successfully.
```

### F. EXIT

```
1. Insert Customer
2. Delete Customer
3. Calculate Total Orders
4. Get Customer Details
5. Update Customer Info
6. Exit

Enter your choice: 6
Exiting the Customer!!
```

## 2. PRODUCTS:

### A. GET PRODUCT DETAILS

```
Options:
1. Customers
2. Products
3. Orders
4. OrderDetails
5. Inventory
6. Exit

Enter your choice: 2

1. Get Product Details
2. Insert Product
3. Update Product Info
4. Check Product Stock
5. Exit

Enter your choice: 1
Enter Product ID: 1
Product ID: 1
Product Name: Laptop
Description: High-end gaming laptop
Price: 1650.00
```

### B. INSERT PRODUCT

```
1. Get Product Details
2. Insert Product
3. Update Product Info
4. Check Product Stock
5. Exit

Enter your choice: 2
Enter Product Name: Plastic bag
Enter Product Description: Elastic and free to use
Enter Product Price: 5
Product inserted successfully.
```

### C. UPDATE PRODUCT INFO

```
1. Get Product Details
2. Insert Product
3. Update Product Info
4. Check Product Stock
5. Exit

Enter your choice: 3
Enter Product ID: 1
Enter New Price: 2000
Enter New Description: High quality laptop
Product information updated successfully.
```

### D. CHECK PRODUCT STOCK

```
1. Get Product Details
2. Insert Product
3. Update Product Info
4. Check Product Stock
5. Exit

Enter your choice: 4
Enter Product ID: 1
Product is in stock.
```

### E. EXIT

```
1. Get Product Details
2. Insert Product
3. Update Product Info
4. Check Product Stock
5. Exit

Enter your choice: 5
Exiting the Product!!
```

## 3. ORDERS:

### A. INSERT ORDER

```
Options:
1. Customers
2. Products
3. Orders
4. OrderDetails
5. Inventory
6. Exit

Enter your choice: 3

1. Insert Order
2. Update Order Status
3. Cancel Order
4. Calculate total amount
5. Get order details
6. Exit

Enter your choice: 1
Enter Customer ID: 1
Enter Total Amount: 2000
Order inserted successfully.
```

**B. UPDATE ORDER STATUS**

```
1.  Insert Order
2.  Update Order Status
3.  Cancel Order
4.  Calculate total amount
5.  Get order details
6.  Exit

Enter your choice: 2
Enter Order ID: 2
Enter New Status: Pending
Order status updated successfully.
```

**C. CANCEL ORDER**

```
1.  Insert Order
2.  Update Order Status
3.  Cancel Order
4.  Calculate total amount
5.  Get order details
6.  Exit

Enter your choice: 3
Enter Order ID: 2
Order canceled successfully.
```

**D. CALCULATE TOTAL AMOUNT**

```
1.  Insert Order
2.  Update Order Status
3.  Cancel Order
4.  Calculate total amount
5.  Get order details
6.  Exit

Enter your choice: 4
Enter Order ID: 9
Total Amount calculated and updated successfully.
```

**E. GET ORDER DETAILS**

```
1.  Insert Order
2.  Update Order Status
3.  Cancel Order
4.  Calculate total amount
5.  Get order details
6.  Exit

Enter your choice: 5
Enter Order ID: 9
Order Details for Order ID: 9
Product: Camera, Quantity: 1, Status: Shipped
```

**F. EXIT**

```
1. Insert Order
2. Update Order Status
3. Cancel Order
4. Calculate total amount
5. Get order details
6. Exit

Enter your choice: 6
Exiting the Order!!
```

## 4. ORDER DETAILS:

### A. CALCULATE SUBTOTAL

```
Options:
1. Customers
2. Products
3. Orders
4. OrderDetails
5. Inventory
6. Exit

Enter your choice: 4
1. Calculate SubTotal
2. Get Order Details
3. Update Quantity
4. Add Discount
5. Exit
Enter your choice: 1
Enter Order Detail ID: 3
Subtotal: 440.00
```

### B. GET ORDER DETAILS

```
1. Calculate SubTotal
2. Get Order Details
3. Update Quantity
4. Add Discount
5. Exit
Enter your choice: 2
Enter Order Detail ID: 3
Order Detail ID: 3
Order ID: 2
Product ID: 3
Product Name: Tablet
Quantity: 1
```

### C. UPDATE QUANTITY

```
1. Calculate SubTotal
2. Get Order Details
3. Update Quantity
4. Add Discount
5. Exit
Enter your choice: 3
Enter Order Detail ID: 3
Enter new quantity: 3
Quantity updated successfully.
```

### D. ADD DISCOUNT

```
1. Calculate SubTotal
2. Get Order Details
3. Update Quantity
4. Add Discount
5. Exit
Enter your choice: 4
Enter Order Detail ID: 3
Enter Discount Percentage: 10
Discount applied successfully.
 New total price: 1188.000
```

### E. EXIT

```
1. Calculate SubTotal
2. Get Order Details
3. Update Quantity
4. Add Discount
5. Exit
Enter your choice: 5
Exiting the Order details!!
```

### 5. INVENTORY:

### A. GET PRODUCT

```
Options:
1. Customers
2. Products
3. Orders
4. OrderDetails
5. Inventory
6. Exit

Enter your choice: 5
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 1
Enter the inventory id: 1
{'ProductID': 1, 'ProductName': 'Laptop', 'Description': 'High quality laptop', 'Price': Decimal('2000.00')}
```

**B. GET QUANTITY IN STOCK**

```
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 2
Enter the inventory id: 1
50
```

**C. ADD TO INVENTORY**

```
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 3
Enter the product id: 1
Enter the quantity in stock: 40
Enter the last stock update: 05-10-2024
Inventory item inserted successfully.
```

**D. REMOVE FROM INVENTORY**

```
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 4
Enter the inventory id: 10
Enter the quantity: 20
Quantity removed from inventory successfully.
```

### E. UPDATE STOCK QUANTITY

```
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 5
Enter the inventory id: 2
Enter the new quantity: 50
Stock quantity updated successfully.
```

### F. PRODUCT AVAILABLE

```
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 6
Enter Inventory ID: 1
Enter Quantity to Check: 30
Product is available in inventory.
```

### G. GET INVENTORY VALUE

```
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 7
Enter Inventory ID: 1
Inventory value: 100000.00
```

## H. LIST LOW STOCK PRODUCTS

```
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 8
Enter the threshold for low stock: 50
Low Stock Products:
Product: Printer, Quantity in Stock: 30
Product: Camera, Quantity in Stock: 40
```

## I. LIST OUT OF STOCK PRODUCTS

```
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 9
No out of stock products found
```

## J. LIST ALL PRODUCTS

```
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 10
All Products in Inventory:
Product: Laptop, Quantity in Stock: 50
Product: Smartphone, Quantity in Stock: 50
Product: Tablet, Quantity in Stock: 200
Product: Smartwatch, Quantity in Stock: 150
Product: Headphones, Quantity in Stock: 75
Product: Keyboard, Quantity in Stock: 80
Product: Monitor, Quantity in Stock: 120
Product: Mouse, Quantity in Stock: 60
Product: Printer, Quantity in Stock: 30
Product: Camera, Quantity in Stock: 40
```

**K. EXIT**

```
1. Get Product
2. Get Quantity in Stock
3. Add To Inventory
4. Remove From Inventory
5. Update Stock Quantity
6. Product Available
7. Get Inventory Value
8. List Low Stock Products
9. List Out Of Stock Products
10. List All Products
11. Exit
Enter your choice: 11
Exiting the Inventory!!
```

## 6. EXIT:

```
Options:
1. Customers
2. Products
3. Orders
4. OrderDetails
5. Inventory
6. Exit

Enter your choice: 6
Exiting the system!!
```