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GEMS EDUCATION

Certificate

OUR OWN HIGH SCHOOL

AL WARQA'A

DUBAI

Roll No. - 18

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Certified that Master Parv V. Joshi of Grade XI Section C had carried out project work in Computer Science prescribed by the CBSE, New Delhi, for the All India Secondary School Certificate Examination

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Date ___/___/___

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I also had an exciting time learning concepts that were out of the textbook by applying them, alongside CBSE requirements.

INTRODUCTION AND CHARACTERSTICS OF PYTHON

WHAT IS PYTHON?

Python is an interpreted, interactive, object-oriented programming language. It incorporates modules, exceptions, dynamic typing, very high level dynamic data types, and classes. Python combines remarkable power with very clear syntax.

It has interfaces to many system calls and libraries, as well as to various window systems, and is extensible in C or C++. It is also usable as an extension language for applications that need programming interfaces. Finally, Python is portable across all major hardware and software platforms.

Python permits its users to write programs and files in fewer lines of code as compared to other programming languages like C++ and Java. The program can be modified at any instant in accordance with the user's requirements. Python provides the user to write clear programs both on a large and small scale.

HISTORY OF PYTHON

Python was perceived in the late 1980s and its implementation was started in December 1989 by Guido van Rossum at CWI in the Netherlands as a successor to the ABC language (itself inspired by SETL) capable of exception handling and interfacing with the Amoeba operating system. Van Rossum is Python's principal author, and his continuing central role in deciding the direction of Python is reflected in

the title given to him by the Python community, benevolent dictator for life (BDFL).

Many of Python's features originated from an interpreted language called ABC. Rossum wanted to correct some of ABC's problems and keep some of its features.

Guido Van Rossum published the first version of Python code (version 0.9.0) at in February 1991. This release included already exception handling, functions, and the core data types of list, dict, str and others. It was also object oriented and had a module system.

Python version 1.0 was released in January 1994. The major new features included in this release were the functional programming tools lambda, map, filter and reduce, which Guido Van Rossum never liked.

Six and a half years later in October 2000, Python 2.0 was introduced. This release included list comprehensions, a full garbage collector and it was supporting unicode. With this release the development process was changed and became more transparent and community-backed.

Python flourished for another 8 years in the versions 2.x before the next major release as Python 3.0 (also known as "Python 3000" and "Py3K") was released. Python 3 is not backwards compatible with Python 2.x. Many of its major features have been backported to the backwards-compatible Python 2.6 and 2.7.The emphasis in Python 3 had been on the removal of duplicate programming constructs and modules.

FEATURES THAT MAKE PYTHON SO POPULAR

- It is a general purpose programming language which can be used for both scientific and non-scientific programming.
- It is a platform independent programming language.

- It is a very simple high level language with vast library of add-on modules.
- It is excellent for beginners as the language is interpreted, hence gives immediate results.
- The programs written in Python are easily readable and understandable.
- It is suitable as an extension language for customizable applications.
- It is easy to learn and use.
- It is of open-source nature, which makes it portable as it can work on various OS.

WHERE IS PYTHON USED?

Python is used in the following places-

- In operations of Google search engine, youtube, etc.
- Bit Torrent peer to peer file sharing is written using Python
- Intel, Cisco, HP, IBM, etc use Python for hardware testing.
- Maya provides a Python scripting API
- i–Robot uses Python to develop commercial Robot.
- NASA and others use Python for their scientific programming task.

WHERE TO WRITE PYTHON PROGRAMS?

To write and run Python program, we need to have Python interpreter installed in our computer. IDLE (GUI integrated) is the standard, most popular Python development environment. IDLE is an acronym of Integrated Development Environment. It lets edit, run, browse and debug Python Programs from a single interface. This environment makes it easy to write programs.

Python shell can be used in two ways, viz., interactive mode and script mode.

Where Interactive Mode, allows us to interact with the Operating System; script mode let us create and edit python source file. Now, we will first start with interactive mode. Here,

we type a Python statement and the interpreter displays the result(s) immediately.

1. **Interactive Mode**

For working in the interactive mode, we will start Python on our computer. When we start up the IDLE what we see is a welcome message of Python interpreter with revision details and the Python prompt, i.e., „>>>". This is a primary prompt indicating that the interpreter is expecting a python command. There is secondary prompt also which is „..." indicating that interpreter is waiting for additional input to complete the current statement. Interpreter uses prompt to indicate that it is ready for instruction. Therefore, we can say, there is prompt on screen, it means IDLE is working in interactive mode.

2. **Script Mode**

In script mode, we type Python program in a file and then use the interpreter to execute the content from the file. Working in interactive mode is convenient for beginners and for testing small pieces of code, as we can test them immediately. But for coding more than few lines, we should

always save our code so that we may modify and reuse the code.

However, the result produced by Interpreter in both the modes, viz., Interactive and script mode is exactly same.

Python, in interactive mode, is good enough to learn, experiment or explore, but its only drawback is that we cannot save the statements for further use and we have to retype all the statements to re-run them.

To create and run a Python script, we will use following steps in IDLE, if the script mode is not made available by default with IDLE environment.

1. File>Open OR File>New Window (for creating a new script file)

2. Write the Python code as function i.e. script

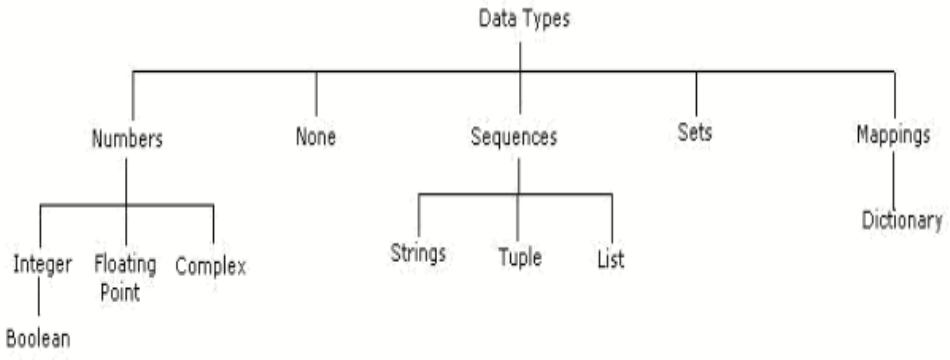
3. Save it (^S)

4. Execute it in interactive mode- by using RUN option (^F5).

5. Otherwise (if script mode is available) start from Step 2

DATA TYPES

Python the following data types –



1. **Number -**

Number data type stores Numerical Values. This data type is immutable i.e. value of its object cannot be changed (we will talk about this aspect later). These are of three different types:

a) Integer & Long

b) Float/floating point

c) Complex

2. **None -**

This is special data type with single value. It is used to signify the absence of value/false in a situation. It is represented by None.

3. Sequence -

A sequence is an ordered collection of items, indexed by positive integers. It is combination of mutable and non-mutable data types. Three types of sequence data type available in Python are Strings, Lists & Tuples.

4. Sets -

Set is an unordered collection of values, of any type, with no duplicate entry. Sets are immutable.

Example

```
s = set ([1,2,34])
```

5. Mapping -

This data type is unordered and mutable. Dictionaries fall under Mappings.

PROBLEM DEFINATION

AIM

To create a python script of an online portal which enables the user to choose product(s) from the given list of genre, brand, budget range and items available.

OBJECTIVE

To showcase the versatility of python programing in modern day online shopping services.

STEPS TO SOLVE THE PROBLEM

STEPS TO SOLVE THE PROBLEM

Firstly, the user is required to enter the number of products he/she wishes to buy. Then he/she should choose the genre of product as per the given list followed by the selecting the brand and budget range corresponding to the product. Finally, he/she should choose the corresponding product based on model number, color, budget etc. The user can also choose the method of shipment available through the website. Then the final bill is printed.

ALGORITHM

ALGORITHM

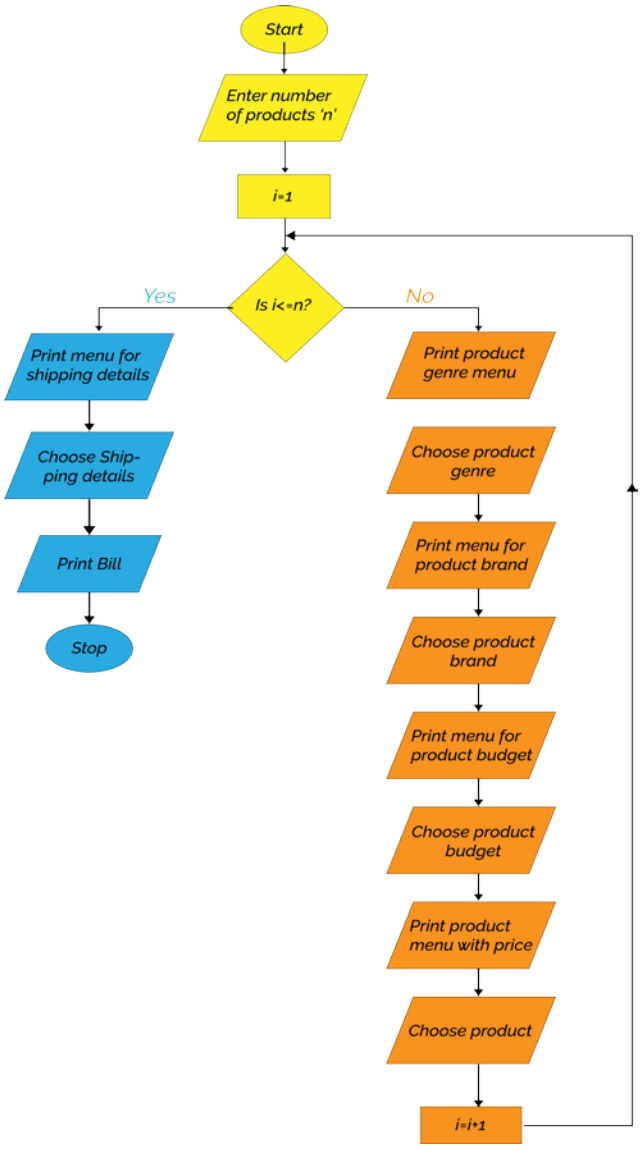
This is the algorithm (step-by-step procedure of solving a problem) of the problem.

1. Start.
2. Enter number of products 'n'.
3. Print menu for product genre.
4. Choose product genre.
5. Print menu for product brand.
6. Choose product brand.
7. Print menu for product budget.

8. Choose product budget.
9. Print menu for items corresponding to product genre, brand and budget.
10. Choose Item.
11. Repeat Steps 2 – 10, 'n' times.
12. Print menu for product(s) shipping details.
13. Choose product(s) shipping details.
14. Print Bill.
15. Stop.

FLOWCHART

FLOWCHART



FUNCTIONS USED

The functions we used throught the program are:

1. **def genre_of_product()**
   It prints the menu containing genre of products satisfying various needs of the user.
   It also allows the user to choose the genre of products from the menu.
2. **def product_menu(choice)**
   It gives us the sub-list of the products available from the genre of products chosen selected by the user. It also allows the user to choose the product of from the given menu.
3. **def brand(choice, product_choice)**
   This allows the user to choose the desired product brand from the available options shown to them.
4. **def budget(choice, product_choice)**
   This allows the user to choose the desired budget range from the available options shown to them.
5. **def specific_item(choice, product_choice, brand_choice, budget_choice)**
   This function prints a menu of the products available corresponding to the particular genre of product, product, brand and budget chosen by the user. It also gives the user a choice to choosd the product he wants.
6. **def process()**
   This function combines the previous five functions into a small on by calling those functions in this function.
7. **def shipping_detials()**
   This function gives a menu of choosing the way the user wants to ship his/her product(s)
8. **def main()**

It is used to call all the functions specified above. Also, it helps the user print his/her final bill.

DOCUMENTATION

TECHNICAL DOCUMENTATION

Our program of Online Shopping Service was coded individually by our members and was then grouped and accessed through the main function.

For coding this program we used the following modules/features of python:

1. **Random Module**
   We used the random module to create a random integer(random.randint) as a booking reference number for the product(s) the user buys.
2. **Lists**
   We used lists to combine the many products the user buys so as to print it one by one(traversing of list) while printing the final bill.
3. **Global**
   For converting a particular variable from local scope to global scope so as to use it while defining other functions, we used global.
4. **main()**
   It is used to call all the functions specified above. Also, it helps the user print his/her final bill.

USER DOCUMENTATION

Our service consists of the user entering the number of products he/she wants to buy and the products available on our online portal is listed in the form of a menu. Then he/she chooses their desired products from the sub-category.

Our portal also allows the user freedom to choose their budget as per the appliance he/she wants to buy. As per the budget our portal lists the brands according their varieties (color, etc.) and the budget chosen by the user.

Finally, our portal also provides the user the comfort of choosing his/her shipping preferences either cash on delivery or pick up from our store located in various outlets across the country.

Then the final bill is printed with the grand total which he/she must pay.

PROGRAM CODE

```
def genre_of_product():
    print "\n"
    genre_list=['Home Appliances', 'Electronics', 'Clothing', 'Stationary']
    print "Printing the genre list"
    print "SL NO.", "\t\t", "PRODUCT"
    for i in range(4):
        print i+1, "\t\t", genre_list[i]
    global choice
    choice=input("Enter your choice: ")


def product_menu(choice):
    print "\n"
    global product_choice
    if choice==1:
        home_appliances_list=["Vaccum Cleaners", "Juicers", "Mixers"]
        print "SL NO.", "\t\t", "ITEMS"
```

```
    for i in range(3):
        print i+1, "\t\t", home_appliances_list[i]
    product_choice=input("Enter your item choice: ")

elif choice==2:
    electronics_list=["Televisions", "Mobiles", "Laptops"]
    print "SL NO.", "\t\t", "ITEMS"
    for i in range(3):
        print i+1, "\t\t", electronics_list[i]
    product_choice=input("Enter your item choice: ")

elif choice==3:
    clothing_list=["Shirts", "Pants", "Hoodies"]
    print "SL NO.", "\t\t", "ITEMS"
    for i in range(3):
        print i+1, "\t\t", clothing_list[i]
    product_choice=input("Enter your item choice: ")

elif choice==4:
    stationary_list=["Pencils", "Pens", "Erasers"]
    print "SL NO.", "\t\t", "ITEMS"
    for i in range(3):
        print i+1, "\t\t", stationary_list[i]
    product_choice=input("Enter your item choice: ")

else:
    print "Invalid Choice"
```

```
def brand(choice, product_choice):
    print "\n"
    global brand_choice
    if choice==1:
        if product_choice==1:
            print "Choose the item brand: "
            print "1. BOSCH"
            print "2. SIEMENS"
            print "3. SHARP"
            brand_choice=input("Enter the brand serial number: ")
            if brand_choice>3 or brand_choice<1:
                print "Invalid Choice"

        elif product_choice==2:
            print "Choose the item brand: "
            print "1. LG"
            print "2. PANASONIC"
            print "3. KENWOOD"
            brand_choice=input("Enter the brand serial number: ")
            if brand_choice>3 or brand_choice<1:
                print "Invalid Choice"

        elif product_choice==3:
            print "Choose the item brand: "
            print "1. KENWOOD"
            print "2. PANASONIC"
```

```
        print "3. PHILIPS"
        brand_choice=input("Enter the brand serial number: ")
        if brand_choice>3 or brand_choice<1:
            print "Invalid Choice"

elif choice==2:
    if product_choice==1:
        print "Choose the item brand: "
        print "1. SONY"
        print "2. SAMSUNG"
        print "3. LG"
        brand_choice=input("Enter the brand serial number: ")
        if brand_choice>3 or brand_choice<1:
            print "Invalid Choice"

    elif product_choice==2:
        print "Choose the item brand: "
        print "1. APPLE"
        print "2. SAMSUNG"
        print "3. HTC"
        brand_choice=input("Enter the brand serial number: ")
        if brand_choice>3 or brand_choice<1:
            print "Invalid Choice"

    elif product_choice==3:
        print "Choose the item brand: "
        print "1. LENOVO"
```

```
        print "2. HP"
        print "3. DELL"
        brand_choice=input("Enter the brand serial number: ")
        if brand_choice>3 or brand_choice<1:
            print "Invalid Choice"

elif choice==3:
    if product_choice==1:
        print "Choose the item brand: "
        print "1. OCTAVE"
        print "2. GIORDANO"
        print "3. LEE COOPER"
        brand_choice=input("Enter the brand serial number: ")
        if brand_choice>3 or brand_choice<1:
            print "Invalid Choice"

    elif product_choice==2:
        print "Choose the item brand: "
        print "1. SPLASH"
        print "2. BEING HUMAN"
        print "3. MAX"
        brand_choice=input("Enter the brand serial number: ")
        if brand_choice>3 or brand_choice<1:
            print "Invalid Choice"

    elif product_choice==3:
        print "Choose the item brand: "
```

```
        print "1. MAX"
        brand_choice=input("Enter the brand serial number: ")
        if brand_choice>1 or brand_choice<1:
            print "Invalid Choice"

elif choice==4:
    if product_choice==1:
        print "Choose the item brand: "
        print "1. HELIX"
        brand_choice=input("Enter the brand serial number: ")
        if brand_choice>1 or brand_choice<1:
            print "Invalid Choice"

    elif product_choice==2:
        print "Choose the item brand: "
        print "1. UNI BALL"
        print "2. FABER CASTELL"
        brand_choice=input("Enter the brand serial number: ")
        if brand_choice>2 or brand_choice<1:
            print "Invalid Choice"

    elif product_choice==3:
        print "Choose the item brand: "
        print "1. FABER CASTELL"
        brand_choice=input("Enter the brand serial number: ")
        if brand_choice>1 or brand_choice<1:
            print "Invalid Choice"
```

```
def budget(choice, product_choice):
    print "\n"
    global budget_choice
    if choice==1:
        if product_choice==1:
            print "Select Budget Choice: "
            print "1. AED 30 - AED 40"
            print "2. AED 40 - AED 55"
            budget_choice=input("Enter your Budget Serial Number: ")
            if budget_choice>2 or budget_choice<1:
                print "Invalid Choice"

        elif product_choice==2:
            print "Select Budget Choice: "
            print "1. AED 100 - AED 135"
            print "2. AED 135 - AED 150"
            budget_choice=input("Enter your Budget Serial Number: ")
            if budget_choice>2 or budget_choice<1:
                print "Invalid Choice"

        elif product_choice==3:
            print "Select Budget Choice: "
            print "1. AED 30 - AED 40"
            print "2. AED 40 - AED 55"
            budget_choice=input("Enter your Budget Serial Number: ")
            if budget_choice>2 or budget_choice<1:
```

```
            print "Invalid Choice"

    elif choice==2:
        if product_choice==1:
            print "Select Budget Choice: "
            print "1. AED 4850 - AED 5000"
            print "2. AED 5000 - AED 5290"
            budget_choice=input("Enter your Budget Serial Number: ")
            if budget_choice>2 or budget_choice<1:
                print "Invalid Choice"

        elif product_choice==2:
            print "Select Budget Choice: "
            print "1. AED 1699 - AED 1945"
            print "2. AED 1945 - AED 2235"
            budget_choice=input("Enter your Budget Serial Number: ")
            if budget_choice>2 or budget_choice<1:
                print "Invalid Choice"

        elif product_choice==3:
            print "Select Budget Choice: "
            print "1. AED 2450 - AED 3000"
            print "2. AED 3000 - AED 3569"
            budget_choice=input("Enter your Budget Serial Number: ")
            if budget_choice>2 or budget_choice<1:
                print "Invalid Choice"
```

```
elif choice==3:
    if product_choice==1:
        print "Select Budget Choice: "
        print "1. AED 35 - AED 55"
        print "2. AED 55 - AED 70"
        budget_choice=input("Enter your Budget Serial Number: ")
        if budget_choice>2 or budget_choice<1:
            print "Invalid Choice"

    elif product_choice==2:
        print "Select Budget Choice: "
        print "1. AED 35 - AED 50"
        print "2. AED 50 - AED 75"
        budget_choice=input("Enter your Budget Serial Number: ")
        if budget_choice>2 or budget_choice<1:
            print "Invalid Choice"

    elif product_choice==3:
        print "Select Budget Choice: "
        print "1. AED 45 - AED 60"
        budget_choice=input("Enter your Budget Serial Number: ")
        if budget_choice>1 or budget_choice<1:
            print "Invalid Choice"

elif choice==4:
    if product_choice==1:
        print "Select Budget Choice: "
```

```
            print "1. AED 1 - AED 2"
            budget_choice=input("Enter your Budget Serial Number: ")
            if budget_choice>1 or budget_choice<1:
                print "Invalid Choice"

        elif product_choice==2:
            print "Select Budget Choice: "
            print "1. AED 1 - AED 3"
            print "2. AED 3 - AED 5"
            budget_choice=input("Enter your Budget Serial Number: ")
            if budget_choice>3 or budget_choice<1:
                print "Invalid Choice"

        elif product_choice==3:
            print "Select Budget Choice: "
            print "1. AED 1 - AED 2"
            budget_choice=input("Enter your Budget Serial Number: ")
            if budget_choice!=1:
                print "Invalid Choice"

def specific_item(choice, product_choice, brand_choice, budget_choice):
    print "\n"
    global item_choice
    global item
    global sum
    global warranty
    global k
```

```
    global s
    global d
    global x
    item=warranty=""
    sum=0
    if choice==1:
        if product_choice==1:
            if brand_choice==1:
                if budget_choice==1:
                    print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
                    print "1", "\t\t", "Bosch Model A03 red","\t\t", "2 Years", "\t\t", "AED 32"
                    print "2", "\t\t", "Bosch Model A03 blue","\t\t", "2 Years", "\t\t", "AED
32"
                    print "3", "\t\t", "Bosch Model C35 white","\t\t", "1 Year", "\t\t\t", "AED
38"
                    item_choice=input("Enter your item choice: ")
                    if item_choice==1:
                        sum+=32
                        item+="Bosch Model A03 red"
                        warranty+="2 Years"
                    elif item_choice==2:
                        sum+=32
                        item+="Bosch Model A03 blue"
                        warranty+="2 Years"
                    elif item_choice==3:
                        sum+=38
                        item+="Bosch Model C35 White"
                        warranty+="1 Year"
```

```
        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Bosch Model F23 green","\t\t", "1 Year", "\t\t", "AED
45"
            print "2", "\t\t", "Bosch Model A12 blue","\t\t", "1 Year", "\t\t", "AED 52"
            print "3", "\t\t", "Bosch Model A12 white","\t\t", "1 Year", "\t\t", "AED 52"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=45
                item+="Bosch Model F23 green"
                warranty+="1 Year"
            elif item_choice==2:
                sum+=52
                item+="Bosch Model A12 blue"
                warranty+="1 Year"
            elif item_choice==3:
                sum+=52
                item+="Bosch Model A12 white"
                warranty+="1 Year"

    elif brand_choice==2:
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Siemens Model E34 red","\t\t", "2 Years", "\t\t", "AED
34"
            print "2", "\t\t", "Siemens Model B45 blue","\t\t", "1 Year", "\t\t", "AED
34"
```

```
        print "3", "\t\t", "Siemens Model B45 black","\t\t", "1 Year", "\t\t", "AED
37"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=34
            item+="Siemens Model E34 red"
            warranty+="2 Years"
        elif item+_choice==2:
            sum+=34
            item+="Siemens Model B45 blue"
            warranty+="1 Year"
        elif item+_choice==3:
            sum+=37
            item+="Siemens Model B45 black"
            warranty+="1 Year"

    elif budget_choice==2:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
        print "1", "\t\t", "Siemens Model J27 red","\t\t", "2 Years", "\t\t", "AED
49"
        print "2", "\t\t", "Siemens Model J27 blue","\t\t", "2 Years", "\t\t", "AED
49"
        print "3", "\t\t", "Siemens Model W12 white","\t\t", "1 Year", "\t\t", "AED
53"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=49
            item+="Siemens Model J27 red"
            warranty+="2 Years"
```

```
            elif item_choice==2:
                sum+=49
                item+="Siemens Model J27 blue"
                warranty+="2 Years"
            elif item_choice==3:
                sum+=53
                item+="Siemens Model W12 white"
                warranty+="1 Year"

        elif brand_choice==3:
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
                print "1", "\t\t", "Sharp Model E34 red","\t\t", "1 Year", "\t\t", "AED 38"
                print "2", "\t\t", "Sharp Model B45 blue","\t\t", "2 Years", "\t\t", "AED
37"
                print "3", "\t\t", "Sharp Model B45 black","\t\t", "2 Years", "\t\t", "AED
37"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=38
                    item+="Sharp Model E34 red"
                    warranty+="1 Year"
                elif item_choice==2:
                    sum+=37
                    item+="Sharp Model B45 blue"
                    warranty+="2 Years"
                elif item_choice==3:
                    sum+=37
```

```
            item+="Sharp Model B45 black"
            warranty+="2 Years"

        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Sharp Model J27 red","\t\t", "1 Year", "\t\t", "AED 47"
            print "2", "\t\t", "Sharp Model J27 blue","\t\t", "1 Year", "\t\t", "AED 47"
            print "3", "\t\t", "Sharp Model W12 white","\t\t", "2 Years", "\t\t", "AED
51"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=47
                item+="Sharp Model J27 red"
                warranty+="1 Year"
            elif item_choice==2:
                sum+=47
                item+="Sharp Model J27 blue"
                warranty+="1 Year"
            elif item_choice==3:
                sum+=51
                item+="Sharp Model W12 white"
                warranty+="2 Years"

    elif product_choice==2:
        if brand_choice==1:
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
                print "1", "\t\t", "LG Model A03 red","\t\t", "2 Years", "\t\t", "AED 120"
```

```
        print "2", "\t\t", "LG Model A03 blue","\t\t", "2 Years", "\t\t", "AED 120"
        print "3", "\t\t", "LG Model C35 white","\t\t", "1 Year", "\t\t", "AED 117"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=120
            item+="LG Model A03 red"
            warranty+="2 Years"
        elif item_choice==2:
            sum+=120
            item+="LG Model A03 blue"
            warranty+="2 Years"
        elif item_choice==3:
            sum+=117
            item+="LG Model C35 white"
            warranty+="1 Year"

    elif budget_choice==2:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
        print "1", "\t\t", "LG Model I23 blue","\t\t", "1 Year", "\t\t", "AED 140"
        print "2", "\t\t", "LG Model K82 red","\t\t", "1 Year", "\t\t", "AED 145"
        print "3", "\t\t", "LG Model K82 white","\t\t", "1 Year", "\t\t", "AED 145"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=140
            item+="LG Model I23 blue"
            warranty+="1 Year"
        elif item_choice==2:
```

```
            sum+=145
            item+="LG Model K82 red"
            warranty+="1 Year"
        elif item_choice==3:
            sum+=145
            item+="LG Model K82 white"
            warranty+="1 Year"

    elif brand_choice==2:
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t" "Warranty", "\t\t" "Price"
            print "1", "\t\t", "Panasonic Model G38 white","\t\t", "2 Years", "\t\t",
"AED 119"
            print "2", "\t\t", "Panasonic Model H45 blue","\t\t", "1 Year", "\t\t", "AED
124"
            print "3", "\t\t", "Panasonic Model H45 black","\t\t", "1 Year", "\t\t",
"AED 124"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=119
                item+="Panasonic Model G38 white"
                warranty+="2 Years"
            elif item_choice==2:
                sum+=124
                item+="Panasonic Model H45 blue"
                warranty+="1 Year"
            elif item_choice==3:
                sum+=124
```

```
            item+="Panasonic Model H45 black"
            warranty+="1 Year"

        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Panasonic Model L07 red","\t\t", "2 Years", "\t\t", "AED
145"
            print "2", "\t\t", "Panasonic Model L07 blue","\t\t", "2 Years", "\t\t",
"AED 145"
            print "3", "\t\t", "Panasonic Model M52 white","\t\t", "1 Year", "\t\t",
"AED 138"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=145
                item+="Panasonic Model L07 red"
                warranty+="2 Years"
            elif item_choice==2:
                sum+=145
                item+="Panasonic Model L07 blue"
                warranty+="2 Years"
            elif item_choice==3:
                sum+=138
                item+="Panasonic Model M52 white"
                warranty+="1 Year"

    elif brand_choice==3:
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
```

```
            print "1", "\t\t", "Kenwood Model U84 red","\t\t", "2 Years", "\t\t", "AED
120"
            print "2", "\t\t", "Kenwood Model E95 blue","\t\t", "1 Year", "\t\t", "AED
125"
            print "3", "\t\t", "Kenwood Model E95 black","\t\t", "1 Year", "\t\t", "AED
125"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
               sum+=120
               item+="Kenwood Model U84 red"
               warranty+="2 Years"
            elif item_choice==2:
               sum+=125
               item+="Kenwood Model E95 blue"
               warranty+="1 Year"
            elif item_choice==3:
               sum+=125
               item+="Kenwood Model E95 black"
               warranty+="1 Year"

         elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Kenwood Model Y47 red","\t\t", "1 Year", "\t\t", "AED
150"
            print "2", "\t\t", "Kenwood Model Y47 blue","\t\t", "1 Year", "\t\t", "AED
150"
            print "3", "\t\t", "Kenwood Model Q17 white","\t\t", "2 Years", "\t\t",
"AED 140"
            item_choice=input("Enter your item choice: ")
```

```
            if item_choice==1:
                sum+=150
                item+="Kenwood Model Y47 red"
                warranty+="1 Year"
            elif item_choice==2:
                sum+=150
                item+="Kenwood Model Y47 blue"
                warranty+="1 Year"
            elif item_choice==3:
                sum+=140
                item+="Kenwood Model Q17 white"
                warranty+="2 Years"

    elif product_choice==3:
        if brand_choice==1:
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
                print "1", "\t\t", "Kenwood Model A03 red","\t\t", "2 Years", "\t\t", "AED
120"
                print "2", "\t\t", "Kenwood Model A03 blue","\t\t", "2 Years", "\t\t",
"AED 120"
                print "3", "\t\t", "Kenwood Model C35 white","\t\t", "1 Year", "\t\t", "AED
135"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=120
                    item+="Kenwood Model A03 red"
                    warranty+="2 Years"
```

```
        elif item_choice==2:
            sum+=120
            item+="Kenwood Model A03 blue"
            warranty+="2 Years"
        elif item_choice==3:
            sum+=135
            item+="Kenwood Model Q17 white"
            warranty+="1 Year"

    elif budget_choice==2:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
        print "1", "\t\t", "Kenwood Model I23 blue","\t\t", "1 Years", "\t\t", "AED
140"
        print "2", "\t\t", "Kenwood Model K82 red","\t\t", "1 Years", "\t\t", "AED
145"
        print "3", "\t\t", "Kenwood Model K82 white","\t\t", "1 Year", "\t\t", "AED
145"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=140
            item+="Kenwood Model A03 red"
            warranty+="1 Year"
        elif item_choice==2:
            sum+=140
            item+="Kenwood Model A03 blue"
            warranty+="1 Year"
        elif item_choice==3:
            sum+=145
```

```
            item+="Kenwood Model Q17 white"
            warranty+="1 Year"

        elif brand_choice==2:
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
                print "1", "\t\t", "Panasonic Model G38 white","\t\t", "2 Years", "\t\t",
"AED 119"
                print "2", "\t\t", "Panasonic Model H45 blue","\t\t", "1 Years", "\t\t",
"AED 124"
                print "3", "\t\t", "Panasonic Model H45 black","\t\t", "1 Year", "\t\t",
"AED 124"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=140
                    item+="Panasonic Model G38 white"
                    warranty+="2 Years"
                elif item_choice==2:
                    sum+=140
                    item+="Panasonic Model H45 blue"
                    warranty+="1 Year"
                elif item_choice==3:
                    sum+=145
                    item+="Panasonic Model H45 black"
                    warranty+="1 Year"

            elif budget_choice==2:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
```

```
            print "1", "\t\t", "Panasonic Model L07 red","\t\t", "2 Years", "\t\t", "AED
145"
            print "2", "\t\t", "Panasonic Model L07 blue","\t\t", "2 Years", "\t\t",
"AED 145"
            print "3", "\t\t", "Panasonic Model M52 white","\t\t", "1 Year", "\t\t",
"AED 150"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
               sum+=145
               item+="Panasonic Model L07 red"
               warranty+="2 Years"
            elif item_choice==2:
               sum+=145
               item+="Panasonic Model L07 blue"
               warranty+="2 Years"
            elif item_choice==3:
               sum+=150
               item+="Panasonic Model M52 white"
               warranty+="1 Year"

      elif brand_choice==3:
         if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Philips Model U84 red","\t\t", "2 Years", "\t\t", "AED
120"
            print "2", "\t\t", "Philips Model E95 blue","\t\t", "1 Year", "\t\t", "AED
125"
            print "3", "\t\t", "Philips Model E95 black","\t\t", "1 Year", "\t\t", "AED
125"
```

```
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=120
            item+="Philips Model U84 red"
            warranty+="2 Years"
        elif item_choice==2:
            sum+=125
            item+="Philips Model E95 blue"
            warranty+="1 Year"
        elif item_choice==3:
            sum+=125
            item+="Philips Model E95 black"
            warranty+="1 Year"

    elif budget_choice==2:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
        print "1", "\t\t", "Philips Model Y47 red","\t\t", "1 Year", "\t\t", "AED 150"
        print "2", "\t\t", "Philips Model Y47 blue","\t\t", "1 Year", "\t\t", "AED
150"
        print "3", "\t\t", "Philips Model Q17 white","\t\t", "2 Years", "\t\t", "AED
143"
        if item_choice==1:
            sum+=150
            item+="Philips Model Y47 red"
            warranty+="1 Year"
        elif item_choice==2:
            sum+=150
            item+="Philips Model Y47 blue"
```

```
            warranty+="1 Year"
        elif item_choice==3:
            sum+=143
            item+="Philips Model Q17 white"
            warranty+="2 Years"
elif choice==2:
    if product_choice==1:
        if brand_choice==1:
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
                print "1", "\t\t", "Sony TV Black","\t\t", "2 Years", "\t\t", "AED 4999"
                print "2", "\t\t", "Sony TV Grey","\t\t", "2 Years", "\t\t", "AED 4999"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=4999
                    item+="Sony TV Black"
                    warranty+="2 Years"
                elif item_choice==2:
                    sum+=4999
                    item+="Sony TV Grey"
                    warranty+="2 Years"

            elif budget_choice==2:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
                print "1", "\t\t", "Sony HD TV Black","\t\t", "1 Year", "\t\t", "AED 5000"
                print "2", "\t\t", "Sony Curve TV Black","\t\t", "1 Year", "\t\t", "AED 5199"
                print "3", "\t\t", "Sony Curve TV Grey","\t\t", "1 Year", "\t\t", "AED 5199"
```

```
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=5000
            item+="Sony HD TV Black"
            warranty+="1 Year"
        elif item_choice==2:
            sum+=5199
            item+="Sony Curve TV Black"
            warranty+="1 Year"
        elif item_choice==3:
            sum+=5199
            item+="Sony Curve TV Grey"
            warranty+="1 Year"

elif brand_choice==2:
    if budget_choice==1:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
        print "1", "\t\t", "Samsung TV Black","\t\t", "2 Years", "\t\t", "AED 4850"
        print "2", "\t\t", "Samsung TV Grey","\t\t", "1 Year", "\t\t", "AED 4850"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=4850
            item+="Samsung TV Black"
            warranty+="2 Years"
        elif item_choice==2:
            sum+=4850
            item+="Samsung TV Grey"
```

```
            warranty+="1 Year"


        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Samsung HD TV Black","\t\t", "1 Year", "\t\t", "AED
5290"
            print "2", "\t\t", "Samsung Curve TV Black","\t\t", "1 Year", "\t\t", "AED
5000"
            print "3", "\t\t", "Samsung Curve TV Grey","\t\t", "2 Years", "\t\t", "AED
5000"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=5290
                item+="Samsung HD TV Black"
                warranty+="1 Year"
            elif item_choice==2:
                sum+=5000
                item+="Samsung Curve TV Black"
                warranty+="1 Year"
            elif item_choice==3:
                sum+=5000
                item+="Samsung Curve TV Grey"
                warranty+="2 Years"


    elif brand_choice==3:
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "LG TV Black","\t\t", "1 Year", "\t\t", "AED 4999"
```

```
        print "2", "\t\t", "LG TV Grey","\t\t", "2 Years", "\t\t", "AED 4999"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=4999
            item+="LG TV Black"
            warranty+="1 Year"
        elif item_choice==2:
            sum+=4999
            item+="LG TV Grey"
            warranty+="2 Years"

    elif budget_choice==2:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
        print "1", "\t\t", "LG HD TV Black","\t\t", "1 Years", "\t\t", "AED 5100"
        print "2", "\t\t", "LG Curve TV Black","\t\t", "1 Years", "\t\t", "AED 5200"
        print "3", "\t\t", "LG Curve TV Grey","\t\t", "2 Year", "\t\t", "AED 5200"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=5100
            item+="LG HD TV Black"
            warranty+="1 Year"
        elif item_choice==2:
            sum+=5200
            item+="LG Curve TV Black"
            warranty+="1 Year"
        elif item_choice==3:
            sum+=5200
```

```
            item+="LG Curve TV Grey"
            warranty+="2 Years"

    elif product_choice==2:
        if brand_choice==1:
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
                print "1", "\t\t", "Apple iPhone 4","\t\t", "2 Years", "\t\t", "AED 1799"
                print "2", "\t\t", "Apple iPhone 4s","\t\t", "2 Years", "\t\t", "AED 1899"
                print "3", "\t\t", "Apple iPhone 5s","\t\t", "1 Year", "\t\t", "AED 1945"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=1799
                    item+="Apple iPhone 4"
                    warranty+="2 Years"
                elif item_choice==2:
                    sum+=1899
                    item+="Apple iPhone 4s"
                    warranty+="2 Years"
                elif item_choice==3:
                    sum+=1945
                    item+="Apple iPhone 5s"
                    warranty+="1 Year"

            elif budget_choice==2:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
                print "1", "\t\t", "Apple iPhone 6","\t\t", "1 Year", "\t\t", "AED 2000"
```

```
        print "2", "\t\t", "Apple iPhone 6+","\t\t", "1 Year", "\t\t", "AED 2100"
        print "3", "\t\t", "Apple iPhone 7","\t\t", "1 Year", "\t\t", "AED 2235"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=2000
            item+="Apple iPhone 6"
            warranty+="1 Year"
        elif item_choice==2:
            sum+=2100
            item+="Apple iPhone 6+"
            warranty+="1 Year"
        elif item_choice==3:
            sum+=2235
            item+="Apple iPhone 7"
            warranty+="1 Year"

elif brand_choice==2:
    if budget_choice==1:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
        print "1", "\t\t", "Samsung galaxy S4","\t\t", "2 Years", "\t\t", "AED 1845"
        print "2", "\t\t", "Samsung galaxy S5","\t\t", "1 Years", "\t\t", "AED 1945"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=1845
            item+="Samsung galaxy S4"
            warranty+="2 Years"
        elif item_choice==2:
```

```
            sum+=1945
            item+="Samsung galaxy S5"
            warranty+="1 Year"

        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Samsung galaxy S6","\t\t", "1 Years", "\t\t", "AED 2000"
            print "2", "\t\t", "Samsung galaxy S7","\t\t", "1 Years", "\t\t", "AED 2135"
            print "3", "\t\t", "Samsung galaxy S7 Edge","\t\t", "2 Year", "\t\t", "AED
2235"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=2000
                item+="Samsung galaxy S6"
                warranty+="1 Year"
            elif item_choice==2:
                sum+=2135
                item+="Samsung galaxy S7"
                warranty+="1 Year"
            elif item_choice==3:
                sum+=2235
                item+="Samsung galaxy S7 Edge"
                warranty+="2 Years"

    elif brand_choice==3:
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "HTC 10 Silver","\t\t", "2 Years", "\t\t", "AED 1799"
```

```
            print "2", "\t\t", "HTC One X9","\t\t", "1 Year", "\t\t", "AED 1899"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=1799
                item+="HTC 10 Silver"
                warranty+="2 Years"
            elif item_choice==2:
                sum+=1899
                item+="HTC One X9"
                warranty+="1 Year"

        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "HTC One A9","\t\t", "1 Year", "\t\t", "AED 1995"
            print "2", "\t\t", "HTC One A9s","\t\t", "1 Year", "\t\t", "AED 2135"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=1995
                item+="HTC One A9"
                warranty+="1 Year"
            elif item_choice==2:
                sum+=2135
                item+="HTC One A9s"
                warranty+="1 Year"

    elif product_choice==3:
        if brand_choice==1:
```

```
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Lenovo ideapad 300","\t\t", "2 Years", "\t\t", "AED
2550"
            print "2", "\t\t", "Lenovo ideapad 500","\t\t", "2 Years", "\t\t", "AED
2570"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=2550
                item+="Lenovo ideapad 300"
                warranty+="2 Years"
            elif item_choice==2:
                sum+=2570
                item+="Lenovo ideapad 500"
                warranty+="2 Years"

        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Lenovo ideapad 700","\t\t", "1 Year", "\t\t", "AED 5190"
            print "2", "\t\t", "Lenovo Thinkpad Yoga","\t\t", "2 Years", "\t\t", "AED
5290"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=5190
                item+="Lenovo ideapad 700"
                warranty+="1 Year"
            elif item_choice==2:
                sum+=5290
```

```
            item+="Lenovo Thinkpad Yoga"
            warranty+="2 Years"

    elif brand_choice==2:
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "HP Pavilion X2","\t\t", "2 Years", "\t\t", "AED 2450"
            print "2", "\t\t", "HP 250 Notebook","\t\t", "1 Years", "\t\t", "AED 2850"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=2450
                item+="HP Pavilion X2"
                warranty+="2 Years"
            elif item_choice==2:
                sum+=2850
                item+="HP 250 Notebook"
                warranty+="1 Year"

        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "HP Stream 13","\t\t", "2 Years", "\t\t", "AED 3100"
            print "2", "\t\t", "HP Probook 450","\t\t", "2 Years", "\t\t", "AED 3569"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=3100
                item+="HP Stream 13"
                warranty+="2 Years"
```

```
        elif item_choice==2:
            sum+=3569
            item+="HP Probook 450"
            warranty+="2 Years"

    elif brand_choice==3:
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Dell Inspiron 3558","\t\t", "2 Years", "\t\t", "AED 2699"
            print "2", "\t\t", "Dell Inspiron 5559","\t\t", "1 Years", "\t\t", "AED 2899"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=2699
                item+="Dell Inspiron 3558"
                warranty+="2 Years"
            elif item_choice==2:
                sum+=2899
                item+="Dell Inspiron 5559"
                warranty+="1 Year"

        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Warranty", "\t\t", "Price"
            print "1", "\t\t", "Dell Inspiron 7559","\t\t", "1 Year", "\t\t", "AED 3000"
            print "2", "\t\t", "Dell Inspiron 7568","\t\t", "1 Year", "\t\t", "AED 3200"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=3000
```

```
            item+="Dell Inspiron 7559"
            warranty+="1 Year"
        elif item_choice==2:
            sum+=3200
            item+="Dell Inspiron 7568"
            warranty+="1 Year"

elif choice==3:
    if product_choice==1:
        if brand_choice==1:
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
                print "1", "\t\t", "Octave Cowboy Shirt black","\t\t", "AED 37"
                print "2", "\t\t", "Octave Cowboy Shirt yellow","\t\t", "AED 37"
                print "3", "\t\t", "Octave blue t-shirt","\t\t", "AED 41"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=37
                    item+="Octave Cowboy Shirt black"
                    warranty+="-"
                elif item_choice==2:
                    sum+=37
                    item+="Octave Cowboy Shirt yellow"
                    warranty+="-"
                elif item_choice==3:
                    sum+=41
                    item+="Octave blue t-shirt"
```

```
            warranty+="-"

        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
            print "1", "\t\t", "Octave full sleves Shirt Blue","\t\t", "AED 65"
            print "2", "\t\t", "Octave brown t-shirt","\t\t", "AED 52"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=65
                item+="Octave full sleves Shirt Blue"
                warranty+="-"
            elif item_choice==2:
                sum+=52
                item+="Octave brown t-shirt"
                warranty+="-"

    elif brand_choice==2:
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
            print "1", "\t\t", "Giordano Cowboy Shirt black","\t\t", "AED 44"
            print "2", "\t\t", "Giordano Cowboy Shirt brown","\t\t", "AED 44"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=44
                item+="Giordano Cowboy Shirt black"
                warranty+="-"
            elif item_choice==2:
```

```
            sum+=44
            item+="Giordano Cowboy Shirt brown"
            warranty+="-"

        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
            print "1", "\t\t", "Giordano full sleves Shirt Orange","\t", "AED 62"
            print "2", "\t\t", "Giordano brown t-shirt","\t\t", "AED 53"
            print "3", "\t\t", "Giordano blue t-shirt","\t\t", "AED 53"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=62
                item+="Giordano full sleves Shirt Orange"
                warranty+="-"
            elif item_choice==2:
                sum+=53
                item+="Giordano brown t-shirt"
                warranty+="-"
            elif item_choice==3:
                sum+=53
                item+="Giordano blue t-shirt"
                warranty+="-"

    elif brand_choice==3:
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
            print "1", "\t\t", "Lee Cooper Cowboy Shirt black","\t\t", "AED 38"
```

```
        print "2", "\t\t", "Lee Cooper Cowboy Shirt brown","\t\t", "AED 37"
        print "3", "\t\t", "Lee Cooper brown t-shirt","\t", "AED 37"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=38
            item+="Lee Cooper Cowboy Shirt black"
            warranty+="-"
        elif item_choice==2:
            sum+=37
            item+="Lee Cooper Cowboy Shirt brown"
            warranty+="-"
        elif item_choice==3:
            sum+=37
            item+="Lee Cooper brown t-shirt"
            warranty+="-"

    elif budget_choice==2:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
        print "1", "\t\t", "Lee Cooper full sleves Shirt Red","\t\t", "AED 59"
        print "2", "\t\t", "Lee Cooper blue t-shirt","\t\t", "AED 66"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=59
            item+="Lee Cooper full sleves Shirt red"
            warranty+="-"
        elif item_choice==2:
            sum+=66
```

```
            item+="Lee Cooper blue t-shirt"
            warranty+="-"

    elif product_choice==2:
        if brand_choice==1:
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
                print "1", "\t\t", "Splash Jeans Black","\t\t", "AED 40"
                print "2", "\t\t", "Splash Jeans Blue","\t\t", "AED 40"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=40
                    item+="Splash Jeans Black"
                    warranty+="-"
                elif item_choice==2:
                    sum+=40
                    item+="Splash Jeans Blue"
                    warranty+="-"

            elif budget_choice==2:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
                print "1", "\t\t", "Splash pant Black","\t\t", "AED 51"
                print "2", "\t\t", "Splash pant Brown","\t\t", "AED 51"
                print "3", "\t\t", "Splash pant Blue","\t\t" "AED 51"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=51
```

```
            item+="Splash pant Black"
            warranty+="-"
        elif item_choice==2:
            sum+=51
            item+="Splash pant Brown"
            warranty+="-"
        elif item_choice==3:
            sum+=51
            item+="Splash pant Blue"
            warranty+="-"

elif brand_choice==2:
    if budget_choice==1:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
        print "1", "\t\t", "Being Human Jeans Black","\t\t", "AED 45"
        print "2", "\t\t", "Being Human Jeans Blue","\t\t", "AED 45"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=45
            item+="Being Human Jeans Black"
            warranty+="-"
        elif item_choice==2:
            sum+=45
            item+="Being Human Jeans Blue"
            warranty+="-"

    elif budget_choice==2:
```

```
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
        print "1", "\t\t", "Being Human pant black","\t\t", "AED 59"
        print "2", "\t\t", "Being Human pant Brown","\t\t", "AED 59"
        print "3", "\t\t", "Being Human pant Blue","\t\t" "AED 59"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=59
            item+="Being Human pant Black"
            warranty+="-"
        elif item_choice==2:
            sum+=59
            item+="Being Human pant Brown"
            warranty+="-"
        elif item_choice==3:
            sum+=59
            item+="Being Human pant Blue"
            warranty+="-"

elif brand_choice==3:
    if budget_choice==1:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
        print "1", "\t\t", "Max Jeans Black","\t\t", "AED 43"
        print "2", "\t\t", "Max Jeans Blue","\t\t", "AED 43"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=43
            item+="Max Jeans Black"
```

```
            warranty+="-"
        elif item_choice==2:
            sum+=43
            item+="Max Human Jeans Blue"
            warranty+="-"

    elif budget_choice==2:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
        print "1", "\t\t", "Max pant black","\t\t", "AED 57"
        print "2", "\t\t", "Max pant Brown","\t\t", "AED 57"
        print "3", "\t\t", "Max pant Blue","\t\t" "AED 57"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=57
            item+="Max pant Black"
            warranty+="-"
        elif item_choice==2:
            sum+=57
            item+="Max pant Brown"
            warranty+="-"
        elif item_choice==3:
            sum+=57
            item+="Max pant Blue"
            warranty+="-"

elif product_choice==3:
    if brand_choice==1:
```

```
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
                print "1", "\t\t", "Max Hoodie Blue","\t\t", "AED 60"
                print "2", "\t\t", "Max Hoodie White","\t\t" "AED 60"
                print "3", "\t\t", "Max Hoodie Black","\t\t", "AED 60"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=60
                    item+="Max Hoodie Blue"
                    warranty+="-"
                elif item_choice==2:
                    sum+=60
                    item+="Max Hoodie White"
                    warranty+="-"
                elif item_choice==3:
                    sum+=60
                    item+="Max Hoodie Black"
                    warranty+="-"

    elif choice==4:
        if product_choice==1:
            if brand_choice==1:
                if budget_choice==1:
                    print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
                    print "1", "\t\t", "Helix HP break proof pencil", "\t\t" "AED 2"
                    print "2", "\t\t", "Helix HP pencil","\t\t" "AED 1"
                    item_choice=input("Enter your item choice: ")
```

```
            if item_choice==1:
                sum+=2
                item+="Helix HP break proof pencil"
                warranty+="-"
            elif item_choice==2:
                sum+=1
                item+="Helix HP pencil"
                warranty+="-"

    elif product_choice==2:
        if brand_choice==1:
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
                print "1", "\t\t", "Uniball Red 0.5 mm","\t\t", "AED 1"
                print "2", "\t\t", "Uniball Blue 0.5 mm","\t\t" "AED 1"
                print "3", "\t\t", "Uniball Black 0.5 mm","\t\t", "AED 1"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=1
                    item+="Uniball Red 0.5 mm"
                    warranty+="-"
                elif item_choice==2:
                    sum+=1
                    item+="Uniball Blue 0.5 mm"
                    warranty+="-"
                elif item_choice==3:
                    sum+=1
```

```
            item+="Uniball Black 0.5 mm"
            warranty+="-"

        elif budget_choice==2:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
            print "1", "\t\t", "Uniball Red 0.7 mm","\t\t", "AED 3"
            print "2", "\t\t", "Uniball Blue 0.7 mm","\t\t", "AED 3"
            print "3", "\t\t", "Uniball Black 0.7 mm","\t\t", "AED 3"
            item_choice=input("Enter your item choice: ")
            if item_choice==1:
                sum+=3
                item+="Uniball Red 0.7 mm"
                warranty+="-"
            elif item_choice==2:
                sum+=3
                item+="Uniball Blue 0.7 mm"
                warranty+="-"
            elif item_choice==3:
                sum+=3
                item+="Uniball Black 0.7 mm"
                warranty+="-"

    elif brand_choice==2:
        if budget_choice==1:
            print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
            print "1", "\t\t", "Faber Castell Red 0.5 mm","\t\t", "AED 1"
            print "2", "\t\t", "Faber Castell Blue 0.5 mm","\t\t" "AED 1"
```

```
        print "3", "\t\t", "Faber Castell Black 0.5 mm","\t\t", "AED 1"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=1
            item+="Faber Castell Red 0.5 mm"
            warranty+="-"
        elif item_choice==2:
            sum+=1
            item+="Faber Castell Blue 0.5 mm"
            warranty+="-"
        elif item_choice==3:
            sum+=1
            item+="Faber Castell Black 0.5 mm"
            warranty+="-"

    elif budget_choice==2:
        print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
        print "1", "\t\t", "Faber Castell Red 0.7 mm","\t\t", "AED 3"
        print "2", "\t\t", "Faber Castell Blue 0.7 mm","\t\t", "AED 3"
        print "3", "\t\t", "Faber Castell 0.7 mm","\t", "AED 3"
        item_choice=input("Enter your item choice: ")
        if item_choice==1:
            sum+=3
            item+="Faber Castell Red 0.7 mm"
            warranty+="-"
        elif item_choice==2:
            sum+=3
```

```
                item+="Faber Castell Blue 0.7 mm"
                warranty+="-"
            elif item_choice==3:
                sum+=3
                item+="Faber Castell Black 0.7 mm"
                warranty+="-"

    elif product_choice==3:
        if brand_choice==1:
            if budget_choice==1:
                print "SL NO.", "\t\t", "ITEMS", "\t\t\t\t", "Price"
                print "1", "\t\t", "Faber Castell Eraser", "\t\t", "AED 1"
                item_choice=input("Enter your item choice: ")
                if item_choice==1:
                    sum+=1
                    item+="Faber Castell Eraser"
                    warranty+="-"
    k=item
    s=warranty
    d=str(sum)
    x=sum

def process():
    print "\n"
    print "Choose your item: "
    genre_of_product()
    product_menu(choice)
```

```
    brand(choice, product_choice)
    budget(choice, product_choice)
    specific_item(choice, product_choice, brand_choice, budget_choice)


def shipping_detials():
    print "\n"
    global reference_number
    global shipping_choice
    import random
    print "How do you want to get your product(s)?"
    print "1. Cash on delivery"
    print "2. Come and collect"
    shipping_choice=input("Enter your choice: ")
    if shipping_choice==1:
        address=raw_input("Enter you Address(in one line): ")
        print "Your Extra Charge for delivery is AED 60"
    elif shipping_choice==2:
        reference_number=random.randint(1,10000)
        print "Please give this booking reference number when you get the
delivery"
        print "\nYour Booking Reference Number is", reference_number


def main():
    print "\n"
    n=input("Enter the number of items you want to buy: ")
    total_price=0
    overall_items=[]
    overall_warranty=[]
```

```
    overall_price=[]
    for i in range(n):
        process()
        q=overall_items.append(k)
        w=overall_warranty.append(s)
        e=overall_price.append(d)
        total_price+=x

    shipping_detials()
    print "\n\n\n"

    print "NEXT -"
    print "1. Print Bill"
    print "\nEnter '1' to print your bill"
    print "\nREMEMBER: SHOW PRINTED COPY OF YOUR BILL WHEN YOU
SHIP YOUR PRODUCTS"
    bill_choice=input("Enter your choice: ")

    print "SLNO", "\t\t\t\t\t", "ITEM", "\t\t\t\t\t", "WARRANTY", "\t\t", "PRICE"
    for i in range(n):
        print " ", i+1, "\t\t\t\t\t", overall_items[i], "\t\t\t\t", overall_warranty[i],
"\t\t\t", overall_price[i],"Dhs"

    print "Your Booking Reference Number is :", reference_number

    if shipping_choice==1:
        print "Your total cost is", total_price+60,"Dhs."
        print"Your product will arrive in 3 days!"
```

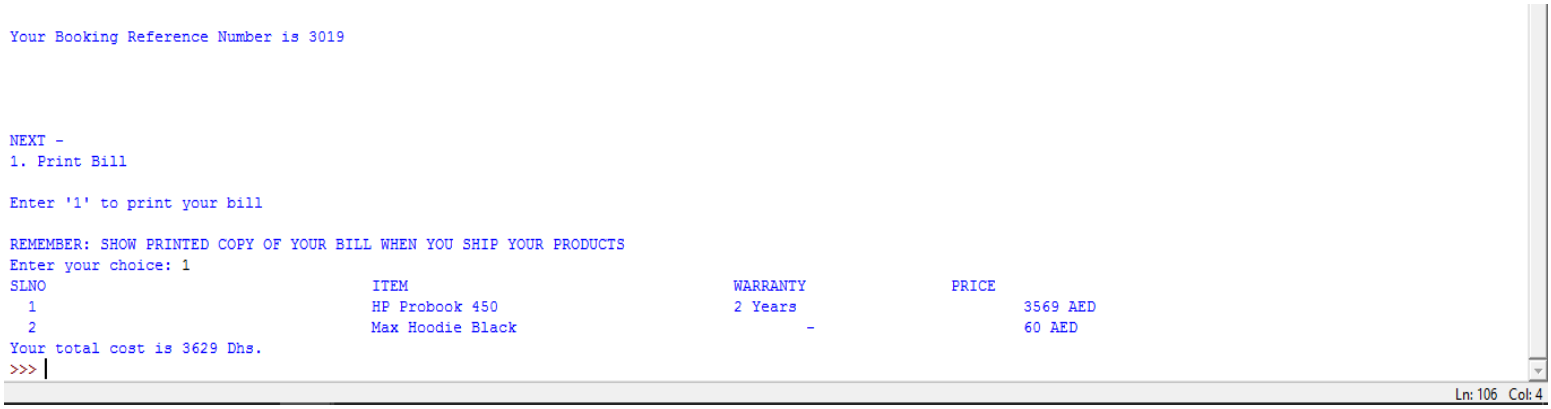
```
    elif shipping_choice==2:
        print "Your total cost is", total_price,"Dhs."

main()
```

PROGRAM OUTPUT

Here with is the screenshots of the output of the program.


Python 2.7.12 Shell
File Edit Shell Debug Options Window Help
Enter your item choice: 2
Choose your item:
Printing the genre list
SL NO. PRODUCT
1 Home Appliances
2 Electronics
3 Clothing
4 Stationary
Enter your choice: 3
SL NO. ITEMS
1 Shirts
2 Pants
3 Hoodies
Enter your item choice: 3
Choose the item brand:
1. MAX
Enter the brand serial number: 1
Select Budget Choice:
1. AED 45 - AED 60
Enter your Budget Serial Number: 1
SL NO. ITEMS Price
1 Max Hoodie Blue AED 60
2 Max Hoodie White AED 60
3 Max Hoodie Black AED 60
Enter your item choice: 3
How do you want to get your product(s)?
1. Cash on delivery
2. Come and collect
Enter your choice: 2
Please give this booking reference number when you get the delivery
Ln: 106 Col: 4


Your Booking Reference Number is 3019
NEXT -
1. Print Bill
Enter '1' to print your bill
REMEMBER: SHOW PRINTED COPY OF YOUR BILL WHEN YOU SHIP YOUR PRODUCTS
Enter your choice: 1
SLNO ITEM WARRANTY PRICE
1 HP Probook 450 2 Years 3569 AED
2 Max Hoodie Black - 60 AED
Your total cost is 3629 Dhs.
>>>
Ln: 106 Col: 4

PROGRAM LIMITATIONS

LIMITATIONS

Here are the main limitations of the online shopping portal -

1. Limited Budget range.
2. Very less product choices available for the user.
3. No option for payment through credit/debit card.
4. No possibility for delivery before 3 days from purchase date.
5. This portal does not provide specific details or picture of the product the user wishes to choose.
6. This portal does not provide the space for the user to get any sort of refund if the product is found to be faulty or wishes to cancel the order.
7. This portal does not provide any discount options for any of the products available.
8. This portal does not specify if the stock of the product is available or not.

SUGGESTIONS FOR IMPROVEMENT

SUGGESTIONS FOR IMPROVEMENT

The coding for the program is very simple and thus should be streamlined for more efficiency. We are looking for the possibilities of providing more budget range along with an increased collection of products for the customer to choose from. We are also trying to enter in minute descriptions/details along with a picture of all the products available. We are working towards enabling more payment options. We are also ready to provide discount offers on our products during festive season and will also try to provide all sorts of refund on faulty products.

BIBLIOGRAPHY

BIBLIOGRAPHY

Here are the website we have taken help from during our coding process -

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2. http://google.ae/
3. http://wikipedia.com/
4. http://flipkart.com
5. http://ebay.com/
6. http://souq.com/
7. http://amazon.com/
8. http://ncert.nic.co.in/