

DEPARTMENT OF ICT, CFS IIUM
SEMESTER 2, SESSION 2021/2022

ICT0525 – INTRO. TO PROGRAMMING
ASSIGNMENT 2 (24 marks)

QUESTION:

A company called Sporty Garments sells seven types of sporting attire, available in four sizes of S, M, L, XL with prices as below:

Type	S	M	L	XL
Polo shirts	35.00	35.00	35.00	40.00
Football Jersey	73.50	73.50	74.50	75.00
Swimming suits	101.50	105.50	108.50	109.50
Tennis shirt	72.90	72.90	72.90	72.90
Windbreakers	84.00	85.70	87.70	89.70
Baseball Jersey	62.00	62.00	62.00	64.00
Fencing Jacket	94.00	95.00	97.00	99.00

- Write a program that receives order of the sports attire, repeatedly until there is no more order.
- The program should declare the following arrays:
 - `sporting_attire[][]` – array of seven types of sporting attire.
 - `prices [][]` – 2 dimensional array of price of cookies for each type and for each size.
 - `sizes [][]` – array of string for the sizes – S, M, L, XL.
 - `total_sales[]` – (declared as global variable) to store daily sales for each type of attire.
- The program must use the functions below:
 - `main()` – calls `ChooseAttire()` to read choice of sporting attire flavour, call `GetSize()` to read the size of attire, and `GetQuantity()` to get the quantity to order, and pass these numbers to `ProcessOrder()`.
 - `ChooseAttire()` declares the `sporting_attire[][]` array and reads the customer's choice of sporting attire and returns to the calling module (reads repeatedly if not a valid choice)
 - `GetSize()` declares the `sizes[][]` array and reads the size, i.e. 1 for S, 2 for M, 3 for L, and 4 for XL.
 - `GetQuantity()` reads the quantity to order.
 - `ProcessOrder()` declares the `prices [][]` array, receives the choice of `sporting_attire[][]`, size and quantity and displays the amount to pay.
 - Repeat the declaration of `sporting_attire[][]` and `sizes[][]` here to show the confirmation of order)

- g) Calls the `UpdateTotal()` function to accumulate the sales of that type of sporting attire)
 - h) `UpdateTotal()` will receive the type of sporting attire and amount of sales and accumulates the total sales for the attire type.
4. This program allow user to continue or end the process after displayed the amount to pay for current order.
 5. The program clear output screen from any order and must display summary report after the last order is completed to show the total sales of each type of sporting attire and whether the sales achieves the daily target of RM500 for each types of sporting attire.

The output must fulfil the sample output below:

```

*** Welcome to Sporty Garments ***

You may choose from the following types of attire:

      Type
=====
1 - Polo Shirts
2 - Football Jersey
3 - Swimming Suit
4 - Tennis Shirt
5 - Windbreaker
6 - Baseball Jersey
7 - Fencing Jacket
Enter your attire choice: 8
Sorry wrong choice! Try again...

You may choose from the following types of attire:

      Type
=====
1 - Polo Shirts
2 - Football Jersey
3 - Swimming Suit
4 - Tennis Shirt
5 - Windbreaker
6 - Baseball Jersey
7 - Fencing Jacket
Enter your attire choice: 3

You have chosen Swimming Suit

Available sizes:   1) Size S 2) Size M   3) Size L   4) Size XL

Choose which size: 2
Enter quantity: 2

```

Confirmation of order:

=====

2 piece(s) of Swimming Suit of size M.

Amount to pay is RM211.00

Another order? (Y or y to order again): Y

Next output screen, after user choose to continue.

*** Welcome to Sporty Garments ***

You may choose from the following types of attire:

Type

=====

- 1 - Polo Shirts
- 2 - Football Jersey
- 3 - Swimming Suit
- 4 - Tennis Shirt
- 5 - Windbreaker
- 6 - Baseball Jersey
- 7 - Fencing Jacket

Enter your attire choice: 4

You have chosen Tennis Shirt

Available sizes: 1) Size S 2) Size M 3) Size L 4) Size XL

Choose which size: 2

Enter quantity: 3

Confirmation of order:

=====

3 piece(s) of Tennis Shirt of size M.

Amount to pay is RM218.70

Another order? (Y or y to order again): N

Next output screen after user choose to end the process.

Summary of sales for today...

Type	Total	Reach Target
+++++		
1 - Polo Shirts	RM270	NO
2 - Football Jersey	RM480	NO
3 - Swimming Suit	RM675	YES
4 - Tennis Shirt	RM507	YES
5 - Windbreaker	RM430	NO
6 - Baseball Jersey	RM209	NO
7 - Fencing Jacket	RM340	NO

Have a nice day!!

Press any key to continue...

Draw the flowchart only for the `main()` function.

