NOTE: I cannot stress enough the importance of doing your own work!

DO NOT COPY FROM CLASSMATE OR THE WEB!!!

1. Write a program named week1fitness.cpp that calculates the charges for membership in the Chualar Fitness Club. The Club has four membership packages to choose from: standard adult membership, family membership, senior membership and corporate membership. The program presents a menu that allows the user to choose the desired package an then calculate the cost of membership. When the user selects the option 5 to exit the program, the program will be terminated.

Membership Packages	Monthly Cost (\$)
Adult	40.00
Family	80.00
Senior	20.00
Corporate	30.00

Sample output from program run:

Chualar Fitness Club Membership Menu

- 1. Standard Adult Membership
- 2. Family Membership
- 3. Senior Membership
- 4. Corporate Membership
- 5. Exit

Enter your choice: **2**For how many months: **12**The total charges are \$ 960.00

Chualar Fitness Club Membership Menu

- 1. Standard Adult Membership
- 2. Family Membership
- 3. Senior Membership
- 4. Corporate Membership
- 5. Exit

Enter your choice: 8

That is an invalid option. Choose again.

Chualar Fitness Club Membership Menu

- 1. Standard Adult Membership
- 2. Family Membership
- 3. Senior Membership
- 4. Corporate Membership
- 5. Exit

Enter your choice: 5

Thank you and make it a great day!

- 2. Two arrays *ara1* and *ara2* are *identical* if they have the same contents. Write a program naamed Week1identical.cpp with the following functions:
 - -> a function that allows the user to fill *one* array with up to 10 integers. This function will be called twice, once for each array
 - -> a function that determines whether or not the arrays are identical. This function should return a Boolean value, indicating if the arrays are identical or not.
 - -> a function to print out the contents of the two arrays
 - -> a function to print out whether or not the arrays are identical

Sample output from program run:

```
Enter 10 integers:
2
3
4
5
4
3
2
1
2
Enter 10 integers:
2
3
4
5
4
3
2
1
array 1: 1 2 3 4 5 4 3 2 1 2
array 2: 1 2 3 4 5 4 3 2 1 1
```

The arrays are not identical.

- 3. Write a program named Week1digits.cpp that displays how many digits are in an integer entered by the user. The program should have the following functions:
 - -> a function to get an integer value from the user. The function should use pass by reference for the user's input.
 - -> a function to determine the number of digits in the user's input. For example, if the user input 45, the value returned from this function would be 2. (HINT: Use the / operator and a counter.)
 - -> a function to print the user' input and the number of digits in the number

Sample output from program run:

Enter an integer: 12312543

The number 12312543 has 8 digits.