

The statements inside your computer programs are generally executed from top to bottom, in the order that they appear. Control flow statements, however, break up the flow of execution by employing decision-making, looping, and branching, enabling your program to conditionally execute particular blocks of code. The assignments given below will take advantage of the concepts of control flow in programming.

An electrical manufacturer provides generator tests by measuring their output voltages at three different times. Write a program that uses the concepts of looping to enter each generator's test results, and then computes and displays the average voltage for each generator. The program will ask the user to enter how many generators to test. For example, if the user enters 3 (it could be 2, 4, or 5), it means that there are three generators needed to be tested. On each generator test, the user must provide three test values.

The program should also calculate and display the average voltage for all generators. Display all results in a readable format using 2 decimal places. Below is a sample of a running program:

```
Welcome! This program will calculate the output voltage average of your generators.

How many generators would you like to average? : 3
Please enter three test voltages:

Voltage reading 1: 4.56754
Voltage reading 2: 4.65422
Voltage reading 3: 4.56677

The average output voltage for generator 1 is: 4.60
Please enter three test voltages:

Voltage reading 1: 2.35653
Voltage reading 2: 5.32678
Voltage reading 3: 6.54422

The average output voltage for generator 2 is: 4.74
Please enter three test voltages:

Voltage reading 1: 5.7865
Voltage reading 2: 4.9875
Voltage reading 3: 3.4565

The average output voltage for generator 3 is: 4.74

The total average of all 3 generators is: 4.69
```

Write a Report Summary

Using Microsoft Word or any text editors, answer the following eight questions.

1. Did you complete your assignment and did it run without errors?
2. Did your program produce the correct result?

3. Did you test your program thoroughly?
4. How much time did you spend completing your assignment?
5. Did you write the program yourself? Did you get any help from anyone?
6. When you encountered obstacles to completing your program, how did you resolve the issues? Did you use Google to get help? Describe how Google was able or not able to assist you.
7. What did you learn from doing this assignment?
8. Any other information you would like to share with your instructor?

What to submit

1. Submit your program and your program output
2. Submit your learning report summary