

CS 1160 – Introduction To Computer Programming

Lab 3 – Calculating Average Grade

Learning Objectives

- Learn how to prompt the user for input data
- Learn how to use if-else statements
- Learn how to use the user's input data for useful calculations

Overview

Write a program that requests 5 grades from the user, computes the average grade, then tells the user their average and corresponding letter grade. You can assume the user will always enter grades between 0.00 to 100.00.

To display the user's grade, use the following grading scale:

- A: average grade ≥ 90.00
- B: $90.00 > \text{average grade} \geq 80.00$
- C: $80.00 > \text{average grade} \geq 70.00$
- D: $70.00 > \text{average grade} \geq 60.00$
- F: $60.00 > \text{average grade}$

The Program

This program will require accepting user input, totaling up those user inputs, averaging them, and using if, else if, or else statements to display the grade properly. You are not required to use any loops in this program. An example execution of the program is below:

```
Welcome to the grade estimator.  
Please enter your grade for assignment 1: 90.00  
Please enter your grade for assignment 2: 72.55  
Please enter your grade for assignment 3: 95.82  
Please enter your grade for assignment 4: 40.10  
Please enter your grade for assignment 5: 89.99  
Your average grade is 77.69.  
You will get a C in this class.
```

How to Submit

Save your .py Python program with your code and submit it to the drop box in Pilot.

Grading

This lab is worth 3.000 points, distributed as follows:

Task	Points
Successfully accepted all user input values	1.000
Successfully displayed average grade	1.000
Successfully displayed the proper letter grade for the class	1.000
Total	3.000