

CS 1400 Lab #26: Reading Data From a File

Introduction

In this exercise, you will create a program that reads data from a file. It will read data until it reaches the end of the file.

The problem

In this exercise exam scores for a class of students is stored in a file. You are to write a program that successfully opens the file, reads in the exam scores, and outputs them on the console.

Deriving the Solution

First of all, copy the data file provided for this assignment into your "Documents" folder. Name the file "grades.txt". Use this file to test your program.

Now do the following:

1. In your program create an array of 50 integers to hold the data that comes from the file.
2. Your program must get the path to the user's Documents folder as described in the reading material on File Paths. The name of the file will be "grades.txt".
3. Create a StreamReader object, using this path. This will open the file.
4. Write a loop that reads data from the file, until it discovers the end of the file.
5. As each integer value is read in, display it, and store it in the array.
6. Using the concepts taught earlier about partially filled arrays, write a method that takes the array as a parameter and calculates and returns the average value of the integers stored in the array
7. Display the average score, accurate to two decimal places.

File(s) to Submit:

Place your complete project folder in a zip file and name the zip file lab_26_your-initials_V1.0.zip. For example, I would name my file lab_26_RKD_V1.0.zip. Submit this assignment as Lab #26 on Canvas.

Grading Guidelines

Description	Points possible
Assignment meets grading guidelines: <ul style="list-style-type: none">o Source code files contain a declaration that you did not copy any code, except that provided.o Assignment has been properly submitted to Canvaso Code meets style guidelineso Code contains a Console.ReadLine() statement at the end	2
Program correctly reads and displays the values stored in the file.	3
Total	5