Lab Program Steps

Step 1 – Download and install Visual Studio

You can download Visual Studio Enterprise 2019 by going to:
https://azureforeducation.microsoft.com/devtools
Use your Full Sail student credentials to log in to the site. Go to the software section (there should be a link). You may need to filter the list by selecting Developer Tools from the Product Category pull down. Locate Visual Studio Enterprise 2019 from the list of options and click its link. A dialog window should appear on the right side of the screen. There are 2 things to select from the dialog:
1) View Key (this will display the product key for your copy of Visual Studio). Click the button and then select the Copy to Clipboard icon on the right. Save the product key to a document on your computer (in Word or Notepad)
2) Download (to download the Visual Studio Installer). When selected, the installer will be downloaded to your computer (depending on your computer's settings, it usually is saved in your Downloads folder

After the download completes, go the file on your computer and start the program (double click on the program). Follow the instructions to install Visual Studio. After downloading the IDE you need to install on your computers.
During installation, under Workloads, please make sure to select both ".NET desktop development" and "Desktop development with C++". Or if the options are different, please select the option that includes the C++ compiler and libraries, in addition to C# .NET. You will use C++ later in your degree program, so install it now. At a minimum, you should install C# and C++. You may choose to install other components packages (such as Unity)

Step 2 – Install the discord app

You can download the discord app by going to:
 https://discordapp.com/download
Follow the instructions provided to download and install the appropriate version for your computer.
NOTE: If you choose to use only the smartphone/tablet or website version of discord, you can skip this step

Step 3 – Install OBS Studio

You can download OBS Studio by going to:
https://obsproject.com
Follow the instructions provided to download and install the appropriate version for your computer
NOTE: If you choose to use a different video recording product, you can skip this step

Step 4 – Install the Zoom app

You can download the Zoom app by going to:
https://zoom.us
Follow the instructions provided to download and install the appropriate version for you computer. Zoom is a video conferencing/collaboration tool. It can be used to provide online 'lectures' and tutoring. You can also 'host' your own meeting for student group collaboration

Write and submit a C# program using Visual Studio

Prior to completing the following 'Tests', you must create a C# project.

1. Open Visual Studio
2. Select the option to 'Create a new project' (bottom right)
3. Select '**Console App (.NET Framework)** – you may need to search for this option. Press the Next button (bottom right)
   - Make sure you chose this exact option (not Console App .NET Core)
4. In the Project name textbox, enter: Lab 1 (Names are case sensitive – **use the exact name Lab 1**)
5. In the Location textbox, select a folder on your computer (not OneDrive or any other cloud drive) to use as your working folder. Suggestion: Create a PG1 folder on your computer. Within the PG1 folder, create the sub-folders 'Working' and 'Test'. After you have entered the Project name and Location, press the Create button (bottom right)

   Visual Studio should open. This will give you an empty 'Program' class that contains the Main method:

   ```
   namespace Lab_1
   {
       class Program
       {
           static void Main(string[] args)
           {
           }
       }
   }
   ```

6. Move your cursor the 'open brace,' {, inside the Main method (around line #12) and press the Enter key twice. Two blanks line will be inserted in the Main method and the cursor will be indented (about 4 spaces) past the braces on the second blank line. Enter the programming statement:
   ```
   Console.ReadKey();
   ```

Scoring:
Tests 1 through 8 are worth 10 points each
Test 9 is worth 20 points
Test10 is worth 0 points

Test 1 – "Hello Full Sail"
Place the cursor on the blank line above Console.ReadKey(). Enter the programing statement to display "Hello Full Sail!" on the monitor

Test 2 – Prompt user for name
Move the cursor to the next line and enter the programming statement to prompt the user for their name, placing the cursor on the line below the prompt

Test 3 – Accept user's name

Move the cursor to the next line and enter the programming statement to accept the user's input for their Name

Test 4 – Prompt user for age

Move the cursor to the next line and enter the programming statement to display a custom prompt (using their name) the user for their age, keeping the cursor on the same line as the prompt

Test 5 – Accept user's age

Move the cursor to the next line and enter the programming statement to accept the user's input for their age (**leave the input as a string – do not convert to an int**)

Test 6 – Display multiple lines of information

Move the cursor to the next line and enter the programming statement(s) to display a greeting to the user and congratulate them for living to their current age. This must include the values entered for name and age

Test 7 – Create and upload a zip file

- ✓ **Exit from Visual Studio** and open your working folder
- ✓ Find the Lab 1.sln file. (should be in a folder named Lab 1)
- ✓ After you find the Lab 1.sln file, move up one folder level
- ✓ Right click (and hold) on the folder that contains the Lab 1.sln file (not just the .sln file)
- ✓ Move your cursor to the 'Send to' line
- ✓ Select 'Compressed (zipped) folder' from the 'Send to' options
- ✓ You should now see a zipped folder named Lab 1.zip. Rename that folder to include your name (but keep the assignment name 'Lab 1' (i.e. Last, First – Lab 1.zip)
  - o It is usually a good idea to copy your zip file to a 'testing' folder on your computer, extract the file and attempt to run it. This will verify that you zip file (and program) are working as expected
- ✓ Log in to your account on FSO and go to Lab 1
- ✓ Select submit and drag/drop the zip file
  Note – if you are submitting after the due date, you cannot use 'submit', instead you will upload the file to the feedback section of the assignment

Test 8 – Introduce yourself on FSO

Log in to FSO and go to the Daily Lesson Notes discussion board. Post the following information about yourself:

- ➢ Your name (along with what you prefer to be called, i.e. a 'nickname')
- ➢ What degree you are enrolled in
- ➢ Programming background (languages, level), if any
- ➢ What you expect to get from PG1
- ➢ At least one 'interesting' fact about you (loving/playing video games is not interesting)

Test 9 – Join the PG1 group on discord

The Game Development and Computer Science programs have created a Discord server to provide all students in the programs the opportunity to synchronously communicate with their instructors and classmates. Discord is free, secure, and works on desktop and mobile devices. You will need a discord account to join the PG1 group. If you don't have an account, you can sign up for one at:
https://discordapp.com

To join the GDBS & CSBS discord server, use this invitation:
https://discord.gg/jhGnbFCpPS

You may be asked to validate yourself, just follow the provided instructions. After joining the discord server, you will need to join the PG1 group, just type 'PG1' in the discord text area.

Test 10 – Complete the 'Two-Strike' document

This item has a 0% weight for the assignment.
There is a word document named "Lab 1 - PG1 Two-Strike Notice.docx" that provides additional important information about PG1. Read, complete and include with you Lab 1 zip file. If you this document is completed and submitted as part of Lab 1, you will be granted a 5 point bonus on your choice of Practical #1, Practical #2, the midterm exam or the final exam (only one of them).