Assignment 3: Environment Variables **

Due: Wed Jun 18, 2025 11:59pm

Offline Score:	Add Comment
N/A	Add Comment

20 Points Possible

Unlimited Attempts Allowed

∨ Details

The purpose of this assignment is to familiarize yourself with environment variables in Linux and how they can be accessed and manipulated using both C and Python.

Instructions

- 1. Download Files: Download the provided files: run assignment.sh and assignment3.c
- 2. Complete C Code: Complete the C code in assignment3.c where indicated by the comments. You will need to:
 - Pass in student id as a command line argument and set the USER_ID environment variable to this value
 - Set environment variable ASSIGNMENT3 to "Environment Variables and Process IDs"
 - Get your process's PID and set the MY PID environment variable to this value.
 - Get the value for the COURSE NAME environment variable, print it and update to the correct course name.
- 3. Compile C Code: Open a terminal and navigate to the folder containing assignment3.c. Compile the C code using the following command:

gcc -o assignment3 assignment3.c

This will create an executable file named assignment3.

4. Run C Code: Run the compiled C code by entering the following command in the terminal:

./run_assignment_update.sh

This will set the environment variables and then run your compiled binary to check if they were set correctly.

If you get a `PERMISSION DENIED` error, then run chmod + ./run_assignment.sh or chmod +x ./run_assignment_update.sh

YOUR COMPILED BINARY MUST BE NAMED: assignment3

LDO give partial credit. If you can't get something to work, still turn it in (or can always ask questions before you turn in)

Submission

Submit the assignment3.c file

Bonus

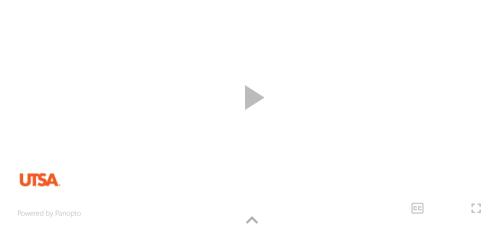
Submit a python3 (assignment3.py) that performs similar functionality as the C program.

Grading

Your submission will be graded based on the following criteria:

- · Completeness of your source code
- Correctness. The environment variables should be set to the correct values.
- The Python script should output that all checks passed.

Assignment 3 - Environment Variables



assignment3.c (https://utsa.instructure.com/courses/63579/files/10372184?wrap=1)_ \(\) (https://utsa.instructure.com/courses/63579/files/10372184/download?frd=1) (https://utsa.instructure.com/courses/63579/files/10372184/download.frd=1) (https:/

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