11210CS 543200 Advanced UNIX Programming

Assignment 11 (5 pts)

Due: Oct 14, 2023, at 23:59:59

**Notice**

1. Please name your file properly; 2 pts will be taken out for incorrectly-named files.
2. Late submission is not allowed. You will receive 0 point in that case.
3. Plagiarism is not allowed. We will pass your source codes through a tool called “moss”, which is an anti-plagiarism service provided by Stanford University to determine the similarity of programs. If your program has > 20% similarity with your classmates, you will receive 0 point; no exception will be made. (Hint: Please do not share your code with fellow students. Discuss with them instead.)

**What to hand in**

1. Your implementation code. You should name it “**assignment11.c**”.
2. A makefile that can compile your code. You should name it “**Makefile**”.
3. An output text file. You should name it “**assignment11.txt**”.
4. A report that contains the answer to the questions, screenshots of your results, and explanations of how you implemented your code. You should name it “***Group\_id*.pdf**”.
5. Please upload all the code files separately and the pdf (do not zip them) to eeclass.

**Specifications**

Write a program that calls the daemonize function given in **daemonize.c**. After calling this function, call getlogin to see whether the process has a login name now that it has become a daemon. Print the results to a file.

In this assignment, you should:

1. **(1 pt)** Call the daemonize function correctly.
2. **(1 pt)** Create a text file called “**assignment11.txt**”, use getlogin to get the login name, and write “*login name: [login name]*” in “**assignment11.txt**”.
3. **(2 pts)** Explain the purpose of every step executed in the daemonize function. (Not just what they do, but the meanings behind the codes.)
4. **(1 pt)** Discuss what would happen to the process after becoming a **daemon process**.

**Additional Notes**

1. **Writing the words in the file directly is forbidden**! We will check your source codes.
2. All of your code should be implemented within one .c file.
3. **Every output of your codes should follow the same format as the sample outputs** given below, otherwise, you will not get the points.

**Sample Output**

Login name: root