

OS ASSIGNMENT 1

Date: 30th September 2020

Q1.

Open: Opened the file using the open system call in read-only mode. This system call returns -1 if the file couldn't be opened. open() takes two arguments, the file name with extension and mode.

After opening the file, I used the fork() function to create a child process. Fork returns 0 for child process, >0 for parent process and <0 if fork could not be performed.

Read: In the child process, I used the read system call to read the opened file. It took the process ID, an array where the contents will be stored and the size of that array as parameters.

I mapped the entries section wise using strtok() and saved them in a 2D array to access later.

Write: This was used to print the average calculated of each student on the terminal. To print on the terminal we used STDOUT_FILENO, the array to be printed from and read process ID.