

Using fork() system call.

fork() system call creates a new copy of the undergoing process.

If the value of fork() is -1 then there is an error.

If the value of fork() is equal to 0 then it goes into the child process.

If the value of fork() is equal to any other positive value other than the above two cases then it goes to the parent process.

Inside Child Process

The .csv file is opened. The marks of the students are read. A function named read_line_from_file is used to read a line from the file and store it in a buffer. Further the data is parsed to struct assignment. Here the data is gathered for section A students in a particular assignment.

Inside Parent Process

In order to make the system call in an orderly manner, waitpid is used to first complete the child process and then move to the parent process. Similar thing is repeated as done in child process but for student of section B in a particular assignment.