

Question 2_1 :

Kill() :

Advantage- It is possible to know if a process exists ,even if we do not have the permission to access him.

Disadvantage - The method will not detail about the process.

First method : waitpid() with WNOHANG flag

father process can use this to know if a child process exists.

Advantage - the method can tell us if child process was successfully finished or not.

Disadvantage - this method works only if the other process is a child of the calling process .

Second method : stat () using “/proc/pid”

We can use stat() function to check if there exists a folder with the pid of the process in “/proc”.

If yes then the process is running

If we got permission error then it exists but we can't do anything with this process.

And if it doesn't exist then the process is not running.

Advantage- It is possible to know if a process exists ,even if we do not have the permission to access him. (like in kill)

Disadvantage -The method will not detail about the process. In addition , look into file path can take time and this method can be slower than other methods.