OS Assignment 1

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Section : 'F'

Roll : 41

Open   *1.c
~/Documents/os   Save

```c
#include<stdio.h>
#include<unistd.h>
#include<sys/types.h>
#include<sys/wait.h>

int main()
{
    pid_t pid = fork();
    if (pid == -1)
    {
        perror("Error creating child process");
        return 1;
    }
    if (pid == 0)
    {
        // child process
        char *argv[] = {"ps", "-u", NULL};
        execvp("ps", argv);
        perror("Error executing ps command");
        return 1;
    }
    else
    {
        // parent process
        int status;
        waitpid(pid, &status, 0);
        return 0;
    }
    return 0;
}
$
```

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sahita@Ubuntu: ~/Documents/os

```
sahita@Ubuntu:~/Documents/os$ gcc -o a.exe 1.c
sahita@Ubuntu:~/Documents/os$ ./a.exe
USER        PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
sahita     1656  0.0  0.3 171036  6232 tty2     Ssl+ 19:18   0:00 /usr/libexec/gdm-wayland-session env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session --session=ubuntu
sahita     1660  0.1  0.7 231684 15324 tty2     Sl+  19:18   0:00 /usr/libexec/gnome-session-binary --session=ubuntu
sahita     2626  0.1  0.2  19660  5232 pts/0    Ss   19:20   0:00 bash
sahita     2689  0.0  0.0   2640  1040 pts/0    S+   19:20   0:00 ./a.exe
sahita     2690  0.0  0.0  21324  1656 pts/0    R+   19:20   0:00 ps -u
sahita@Ubuntu:~/Documents/os$
```