UIT2512---Operating Systems Practices Lab

3) Create 1 Parent ad Two Child Processes where the Parent Process waits for Child 2 to Complete in Python

Name: Vasundhara.B

Roll no: 3122 21 5002 119

Here, you have to write a program in Python to create One Parent - Two Children, where the Parent process terminates only after the child 2 completes its execution. Use the appropriate system calls for the same in the parent process.

CODE:

```
import os,sys
def child1():
   print("Child 1 process executing")
   sys.exit(0)
def child2():
   print("Child 2 process executing")
   sys.exit(0)
if name == " main ":
    # Create the first child process
   child1_pid = os.fork()
   if child1 pid == 0: #
        child1()
   # Create the second child process
   child2 pid = os.fork()
   if child2_pid == 0:
       child2()
   # This is the parent process
   print(f"Parent process (PID {os.getpid()}) waiting for Child 2 (PID
{child2_pid}) to complete...")
   os.wait() # Wait for any child process to complete
   os.wait() # Wait for the second child process to complete
   print(f"Parent process (PID {os.getpid()}) is exiting")
```

OUTPUT:

```
Child 1 process executing
Child 2 process executing
Parent process (PID 2906) waiting for Child 2 (PID 2908) to complete...
Parent process (PID 2906) is exiting
```