ASSIGNMENT # 6

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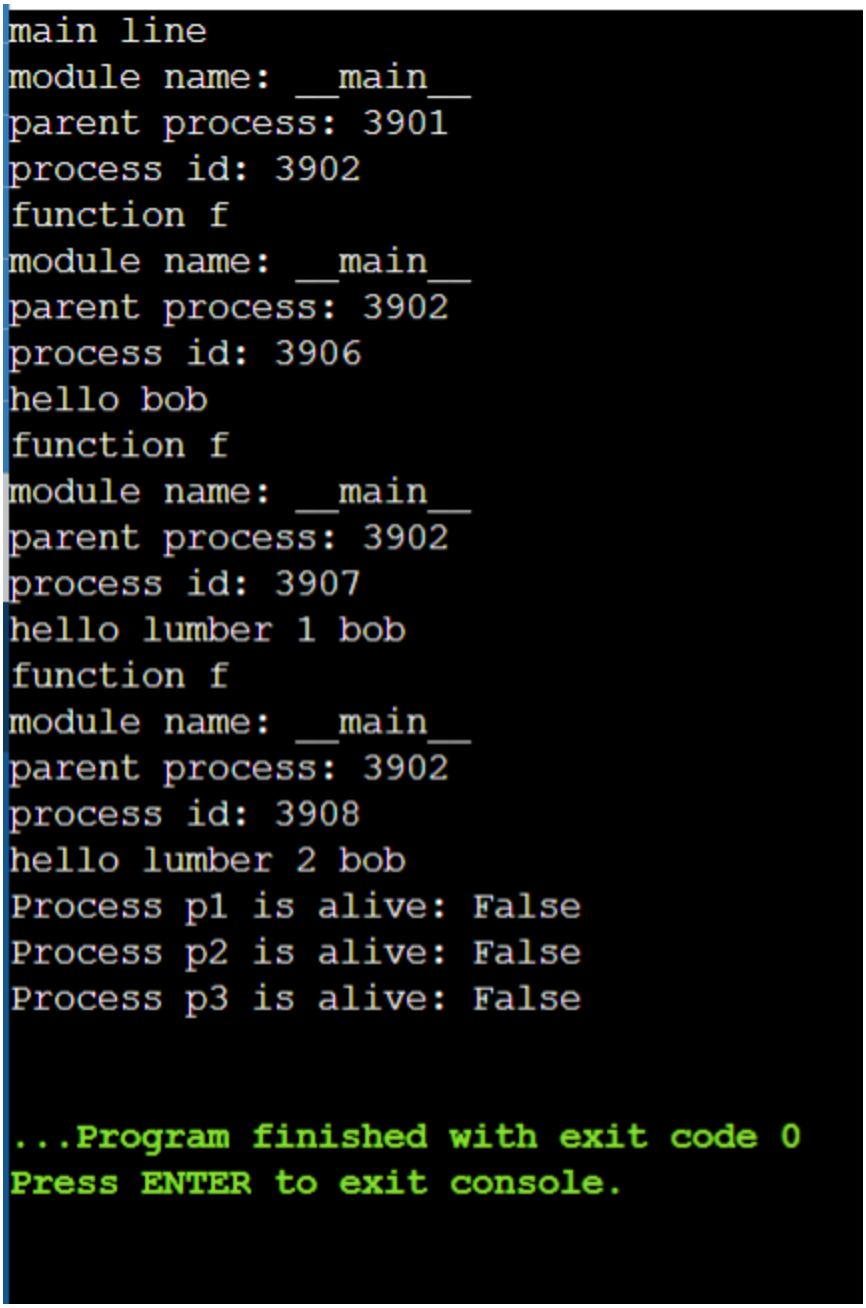
ROLL NO : **20P-0128**

SECTION : BS-CS **4-B**

SUBJECT : OPERATING SYSTEM

main.py

```python
from multiprocessing import Process
import os

def info(title):
    print(title)
    print('module name:', __name__)
    print('parent process:', os.getppid())
    print('process id:', os.getpid())

def f(name):
    info('function f')
    print('hello', name)

if __name__ == '__main__':
    info('main line')

    p1 = Process(target=f, args=('bob',))
    p2 = Process(target=f, args=('lumber 1 bob',))
    p3 = Process(target=f, args=('lumber 2 bob',))


    p1.start()
    p2.start()
    p3.start()


    p1.join()
    p2.join()
    p3.join()

    print("Process p1 is alive: {}".format(p1.is_alive()))
    print("Process p2 is alive: {}".format(p2.is_alive()))
    print("Process p3 is alive: {}".format(p3.is_alive()))
```



PROCESS CLASS

Process class is an abstraction that sets up another Python process, provides it to run code and a way for the parent to control the start and termination of process { using start() & join() }.
It works only on processors having multiple cores or system with multiple processors.

Visual Representation