

IT253 LAB ASSIGNMENT-3

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TOPIC: IPC (INTER PROCESS
COMMUNICATION)

Q. Implement IPC using shared memory in python.

Ans:

Output Screenshot:

```
C:\Users\TG\Desktop\Sem4\IT253\OS assignment 2>python 191IT109_IPCusingSharedMemory.py
Starting read process...
[1 2 3 4 5]
Read process completed!

Starting write process...
[1 2 3 4 5 6 7]
Write process completed!

Starting edit process...
[8 9 3 4 5 6 7]
Edit process completed!
```

IPC has been implemented using multiprocessing library in python. To create shared memory space, multiprocessing.shared_memory.ShareMemory() has been used, and to create processes, multiprocessing.Process() is used. Finally, the shared space is initialized to a byte array [1,2,3,4,5] which is first read, then two more elements are added in write process and first two elements have been edited(overwritten) in the edit process.

THANK YOU