

Q.3) Fork () - Child & parent process.

- Parent → original process, makes child
- Child → new process created
- Both have their own PIDs
- Child can know who its parents is using getppid().

Q.2) Process Creation in C (Orphan & zombie)

Think of processes like children and parents

① Orphan process

- child process whose parent dies first
- OS adopts it (like a guardian take care of it)
- Use fork() in C to create a child and make parent sleep/exit first.

② Zombie Process

- Child finishes work but parent hasn't "noticed" it yet.
- It stays in the process table like a ghost → that's why called zombie.
- Use fork() and let child finish quickly parents sleeps.

fork() - Make a new process

getpid() - Shows process ID

getppid() - Shows parent's process ID

Practical 4

Q.1) How to kill process in LINUX

→ Imagine your computer is a bit slow because too many programs are running. To reduce load, you can "kill" unnecessary programs.

① kill by PID

- Every process has a unique ID(PID).

- Command:

`kill < PID >`

Eg: `kill 2845`

② kill by Process name

- You can kill a program just by its name.

- Command :

`killall <process-name>`

Eg: `killall firefox`

③ Another way : pkill

- Works similar to killall

- Command :

`pkill <process-name>`