

### ③ Zombie process:

It is a process that has completed its execution ~~at~~ via the ~~exist~~ system call but still has an entity in the process table and it is the called as process in terminated state

→ To remove zombie process from the system `SIGCHLD` signal can be sent to parent manually using the `kill -s SIGCHLD <PID>` command.

→ parent process reads the exit status of child via `wait` system call by the parent process and it is removed from the process & it is called as reaped.

Orphan process: It is a process still executing but whose parent is dead. When parent is dead `init` process adopts the child process which is parent process for every process.

→ when ~~process~~<sup>orphan</sup> process die, they donot remain as zombie process instead they are waited on init.

3b) sys calls act as an interface b/w low & high level APIs and carried out by using or servicing.

→ 3 system calls are made in the scenario.

① → opening file.

② → check permissions

③ → display errors.