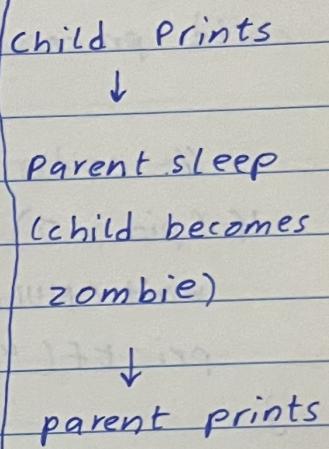


Class Activity

Q1- I am exiting!
= My child is a z

Child Process: I am exiting!

Parent Process: My child is a zombie now!



Q2- The child process becomes a zombie
process. It remains in the process table but its resources
(except for ^{the} exit status) are released. The parent still
needs to collect the child's termination status using wait()
or waitpid();

Q3- Child process is in zombie state while parent sleeps.

Q4- Run the compiled program
→ ./a.out

Open another terminal and use the following command:-
→ ps aux | grep z

The command will show the output in STAT column
as z(zombie) for child process.

Q5- parent should call wait or waitpid() to clean up child process's descriptor.

// code above modified code-segment

```
if (pid > 0) {  
    wait(NULL);  
    printf("Parent Process: Cleaned up child successfully.\n");  
}
```

// code below