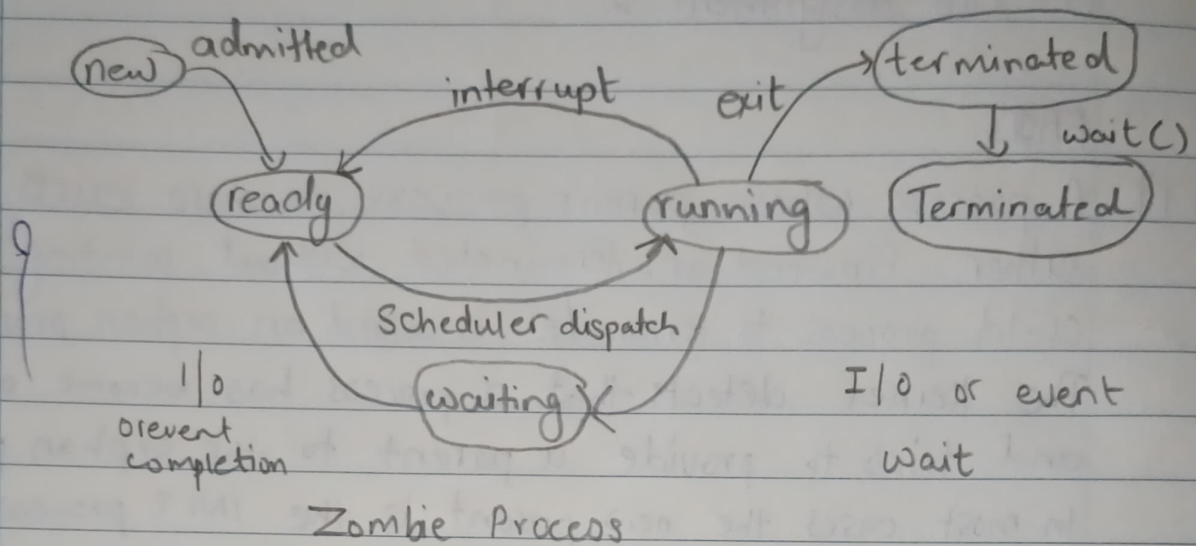


OS Lab Assignment 2

FAQ's.

Ans 1] A process whose parent process no more exists i.e: either finished or terminated without waiting for its child process to terminate is called an orphan process. The kernel detects that a process has become orphan and tries to provide a parent to the orphan process. In most cases the new parent is the INIT process, one with the PID 1. The new parent waits for the completion of the child (orphan process) and then asks the kernel to clean the PCB of the orphan process.

Ans-2] A zombie process or defunct process is a process that has completed execution but still has an entry in the process table. This occurs for the child processes, where the entry is still needed to allow the parent process to read its child's exit status. Once exit status is read via the wait system call, the zombie's entry is removed from the process table and said to be 'reaped'. A child process always first becomes a zombie before being removed from the resource table.



Ans-3] The sleep function displays the execution of a message flow instance for a defined period of time, and returns a Boolean value to indicate whether the sleep completed without interruption. It allows the user to wait for a current thread for a specific time.

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