## Prakash Arunakar CDAC HYD DESD AUG 2016

October 15 at 8:58pm ·

## Program vs Process

## (#Important\_for\_interview)

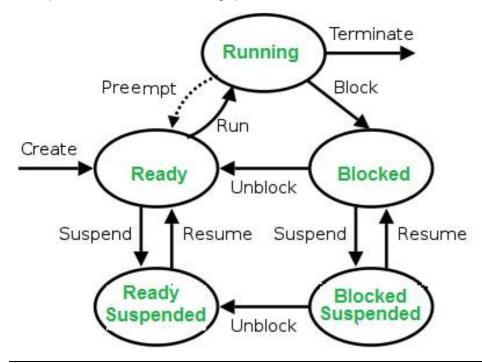
A process is a program in execution. For example, when we write a program in C or C++ and compile it, compiler creates a binary code. The original code and Binary code, both are programs. When we actually run the binary code, it becomes a process.

A process is an 'active' entity as oppose to program which considered to be a 'passive' entity. A single program can create many processes when run multiple times, for example when we open an exe or binary file multiple times, many instances begin (many processes are created).

## States of Process:

A process is in one of the following states

- 1. New: Newly Created Process (or) being created process.
- 2. Ready: After creation Process moves to Ready state, i.e., process is ready for execution.
- 3. Run: Currently running process in CPU (only one process at a time can be under execution in a single processor).
- 4. Wait (or Block): When process request for I/O request.
- 5. Complete (or Terminated): Process Completed its execution.
- 6. Suspended Ready: When ready queue becomes full, some processes are moved to suspend ready state
- 7. Suspended Block: When waiting queue becomes full.



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**Prakash Arunakar** Devang Sharma Dheeraj Yadav Aluri Saiesh KumarDibendu Rudra Sarma Pavithra Reddy Sai Lakshmi Bhattaram

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Vaira Mani Tnx bro

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