

state after Start state or while running it by but interrupted by the scheduler to assign CPU to some other process.

3 Running

Once the process has been assigned to a processor by the OS scheduler, the process state is set to running and the processor executes its instructions.

4 Waiting

Process moves into the waiting state if it needs to wait for a resource, such as waiting for user input, or waiting for a file to become available.

5 Terminated or Exit

Once the process finishes its execution, or it is terminated by the operating system, it is moved to the terminated state where it waits to be removed from main memory.

File

A file is a named collection of related information that is recorded on secondary storage such as magnetic disks, magnetic tapes and optical disks. In general, a file is a sequence of bits, bytes, lines or records whose meaning is defined by the files creator and user.

File Structure

A File Structure should be according to a required format that the operating system can understand.

A file has a certain defined structure according to its type.

A text file is a sequence of characters organized into lines.

A source file is a sequence of procedures and functions.

An object file is a sequence of bytes organized into blocks that are understandable by