

Operating System : Processes

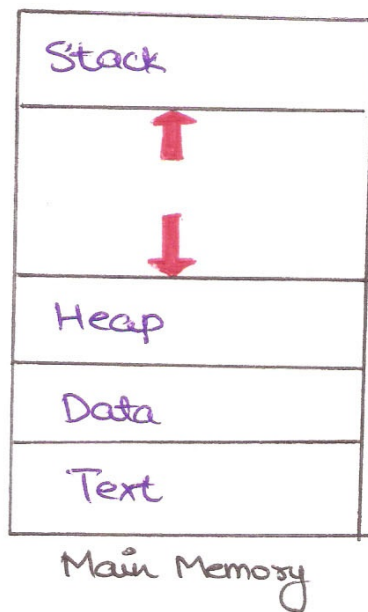
What is a process?

A process is a program in execution including the current values of the program counter, registers and variables.

The difference between a process and a program is that the program is the group of instructions whereas the process is the activity.

We write our computer programs in a text file and when we execute this program, it becomes a process which performs all the tasks mentioned in the program.

When a program is loaded into the memory and it becomes a process, it can be divided into four sections - Stack, Heap, text and Data.



S.No	Component & Description
1	Stack: The process stack contains the temporary data such as Method/function, Parameters, return address, and local variables.
2.	Heap: This is dynamically allocated memory to a process during its runtime.
3.	Text: This includes the current activity represented by the value of Program Counter & contents of the processor's registers.
4.	Data: This section contains all global and static variables.

