

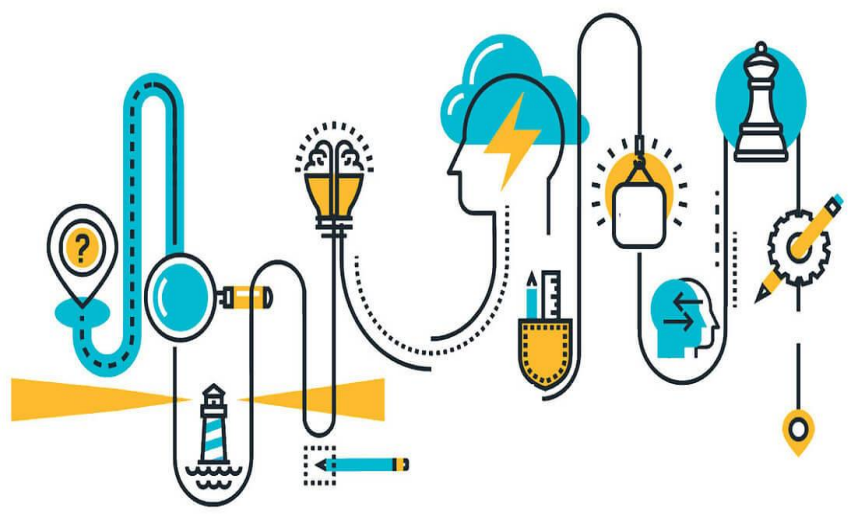
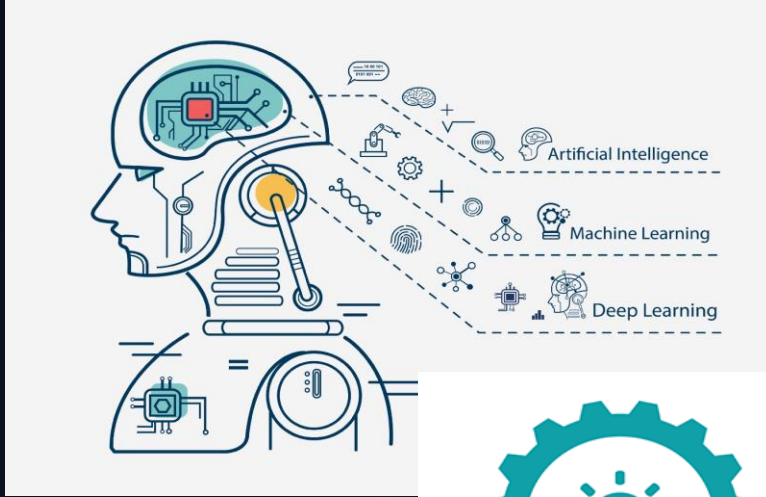


Coordinating the Machine's Activities

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The Concept of a Process



- ✚ The program is merely a static set of directions, while the process is a dynamic activity whose properties change as time progresses.
- ✚ A process encompasses the current status of the activity called process state, this state includes:
 - ❑ The current position in the program being executed (the value of the program counter).
 - ❑ The value of other CPU registers
 - ❑ The associated memory cells.
- ✚ At different times during the execution of a program (at different times in a process) different snapshots (different process states) will be observed.

Process Administration:

✚ The task associated with process coordination are handled by the scheduler and the dispatcher within the operating system's kernel.

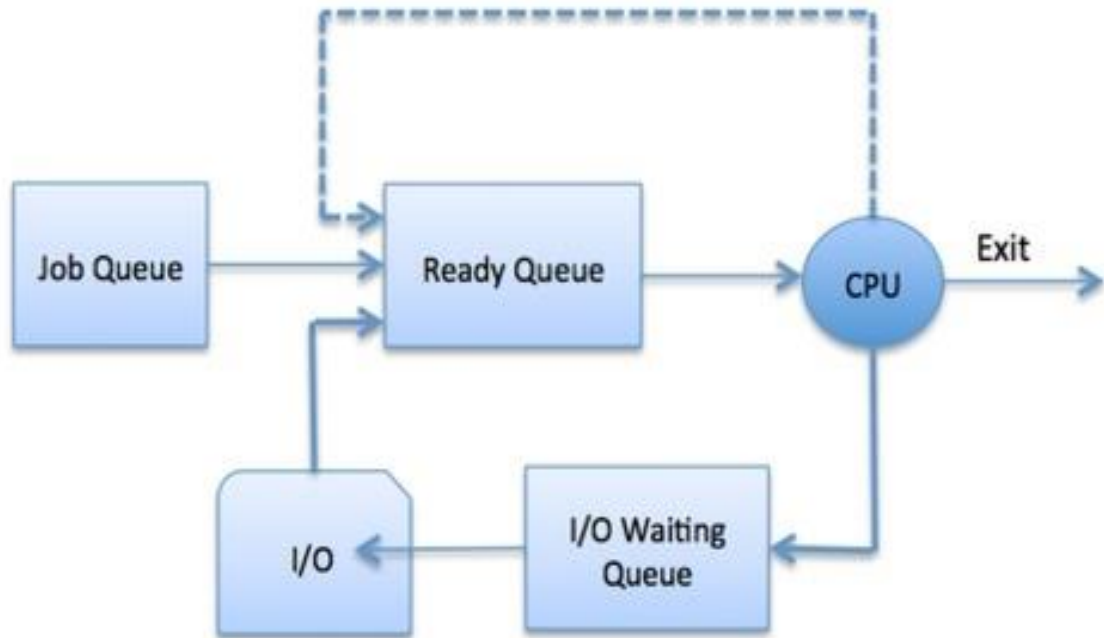
✚ The Scheduler:

- ❑ To keep track of all the process, it also maintains a block of information in the main memory called the process table.

✚ The Dispatcher:

- ❑ Ensures that the scheduled process are actually executed.

The Scheduler



The Dispatcher

