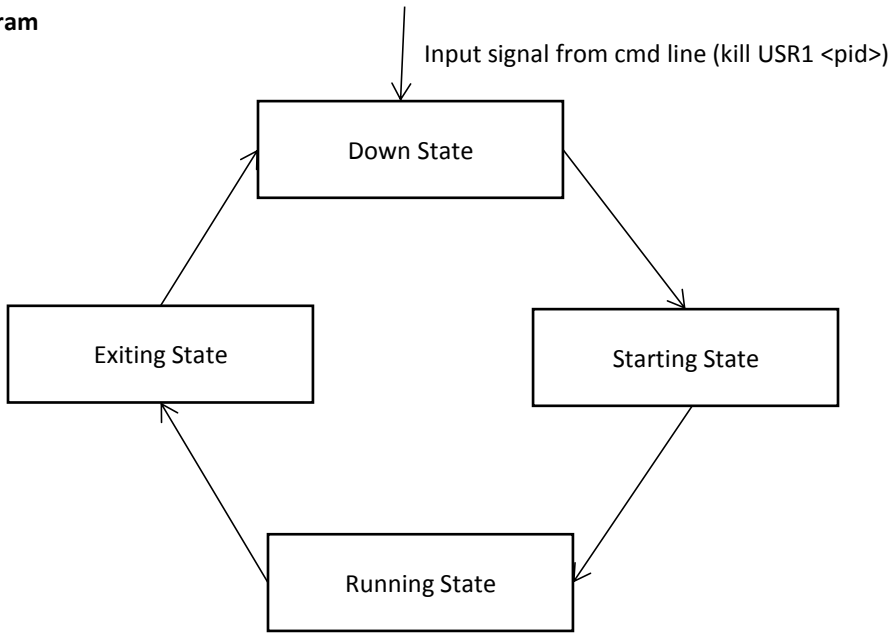


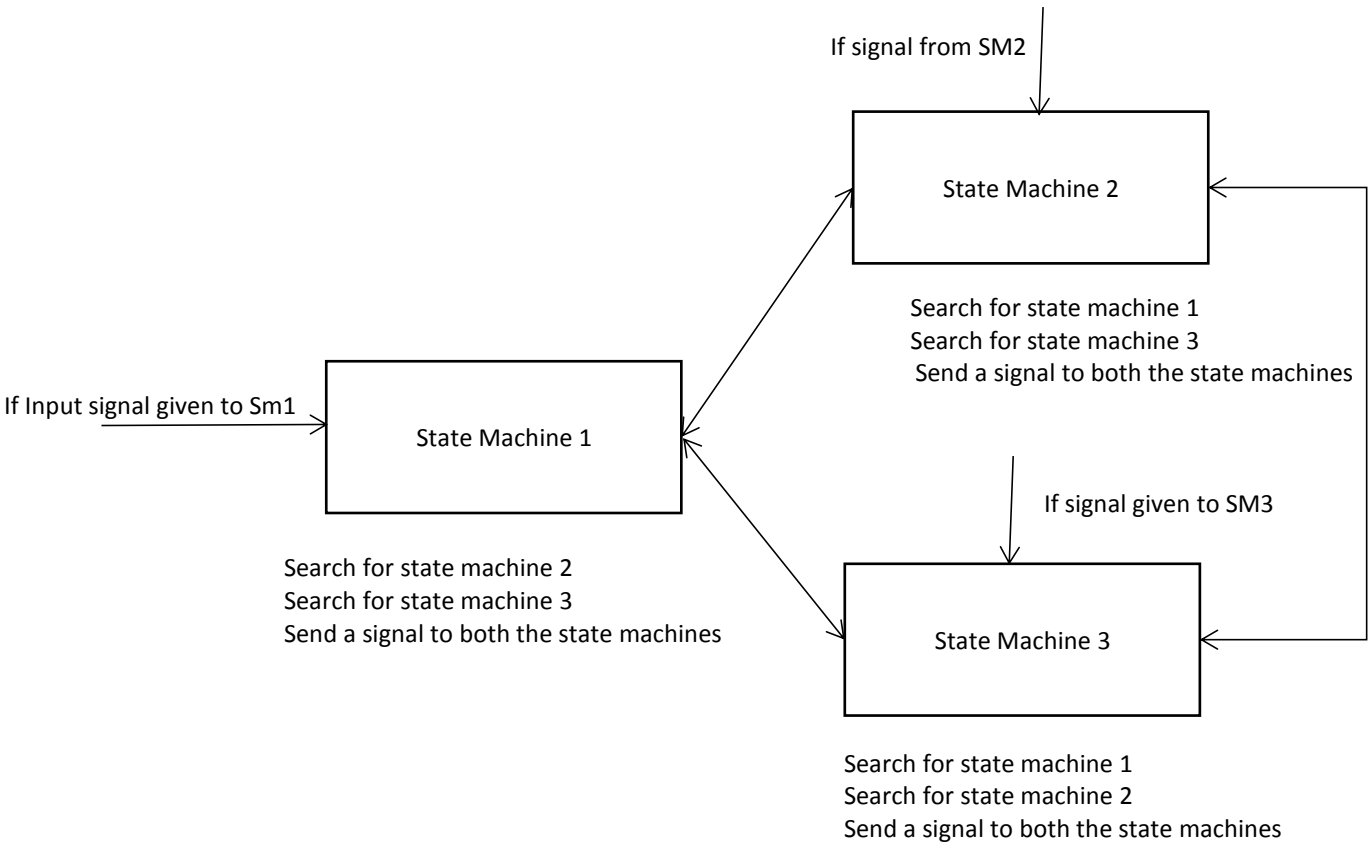
# STATE MACHINE

## State machine diagram

SM1



## State machine



**State machine :**

A state machine is any device storing the status of something at a give time.The status changes based on input ,providing the result in output for the implemented changes

There are used in modeling of application behaviour software engineering ,network protocols compiler.

Inputs are like signals given to the system

**Signal :**

A signal is a software generated interrupt that is sent to a process.

A signal is sent to a process or command in order to notify an event that occurred

You can send various signals to command and process .for eg to terminate a foreground process hit ctrl+c .

Eg: SIGUSR1,SIGUSR2: user define signals

SIGINT: Interrupt from keyboard.

SIGHUP:Hang up detected on controlling terminal or desktop controlling process.

**Kill() :**

Send Signals to a process

**Description :**

The kill() system call can be used to send any signal to any process group or process.

If pid is positive ,then signal sig is sent to the process with ID specified by pid

If pid is equal to 0 ,then signal sig is sent to every process in the process