**Unit – III Process Synchronization**

### Monitors:

The monitor is one of the ways to achieve Process synchronization. The monitor is supported by programming languages to achieve mutual exclusion between processes. For example Java Synchronized methods. Java provides wait() and notify() constructs.

1. It is the collection of condition variables and procedures combined together in a special kind of module or a package.
2. The processes running outside the monitor can’t access the internal variable of the monitor but can call procedures of the monitor.
3. Only one process at a time can execute code inside monitors.

monitor monitorName

{

data variables;

Procedure P1(....)

{

}

Procedure P2(....)

{

}

Procedure Pn(....)

{

}

Initialization Code(....)

{

}

}