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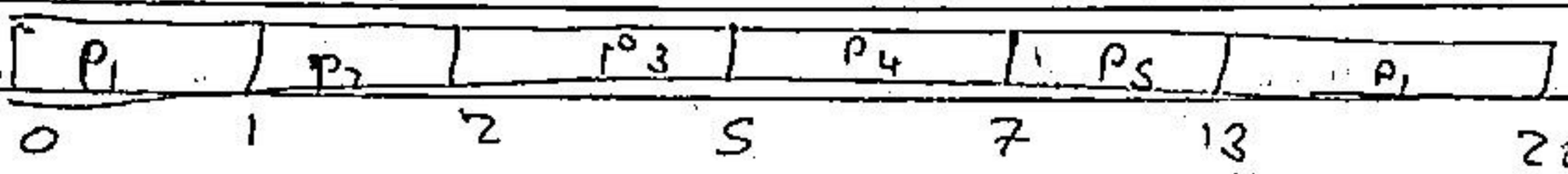
Process	priority	Finish time	TAT	WT
P_1	0	8	8	0
P_2	1	1	1	0
P_3	2	3	1	0
P_4	3	2	11	9
P_5	4	6	11	10

Avg → 10.6 Av → 6.6

Non SJF - Preemptive

Gantt Chart

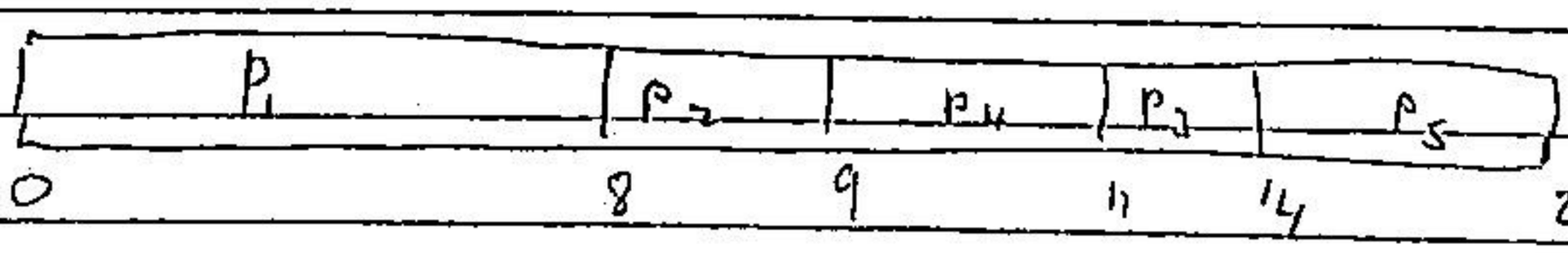


Process	priority	Finish time	TAT	WT
P_1	3	20	20	12
P_2	1	2	1	0
P_3	2	5	3	2
P_4	3	7	4	2
P_5	4	3	9	4

Avg → 7.5 4

SJF → Non preemptive

Gantt chart



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Vinayak . D. Ganuk

S-2 ...

Q). The Types of System calls
These are mainly five types of System calls. These are explained as follows:

1) Process Control :
~~These are mainly five types of System calls~~

The System calls deals with process such as the process creation termination etc.

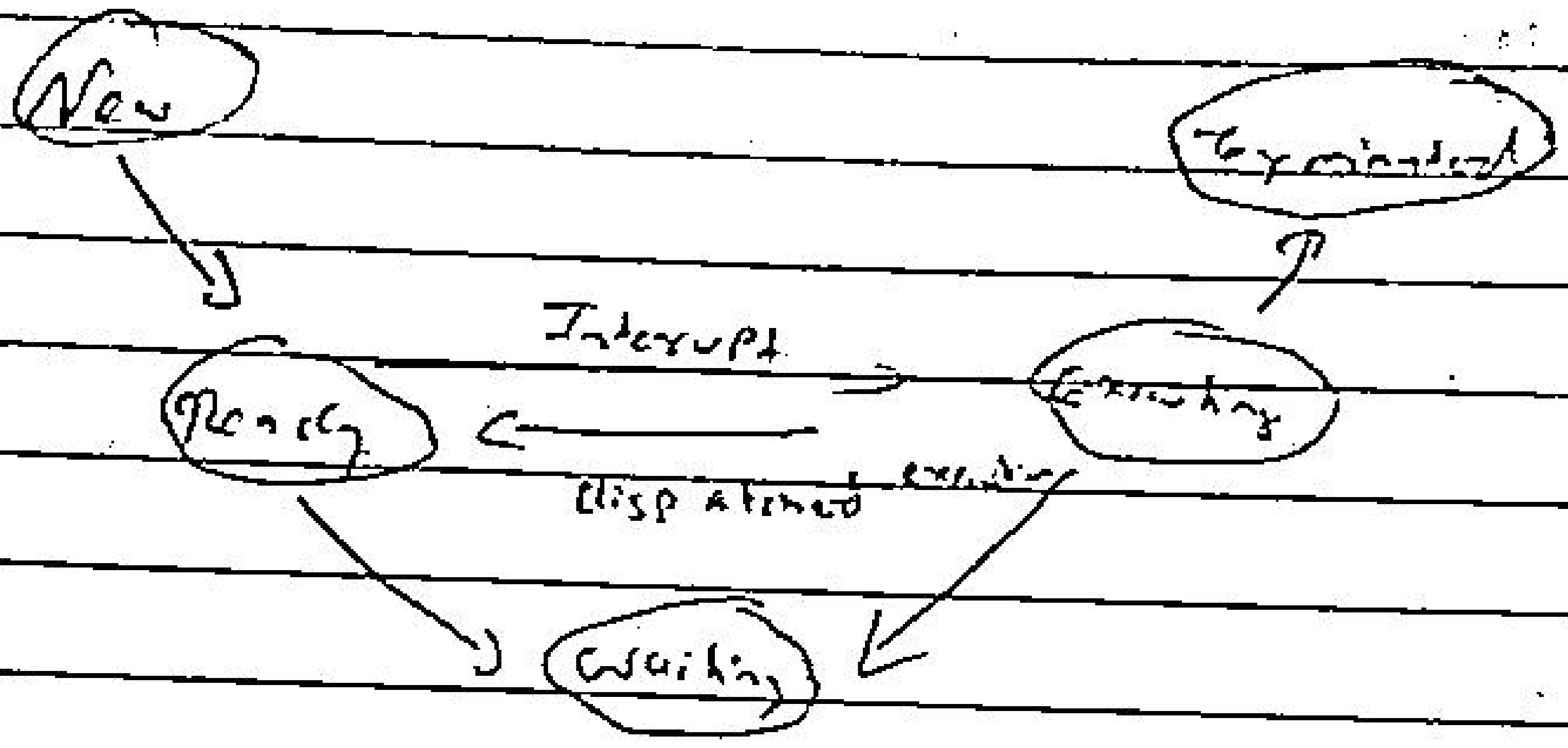
2) File management
These System calls are responsible for manipulation such as creating file, reading a file, writing into a file etc.

3) Device management.
These System calls are responsible for device manipulation such as reading from device buffers, writting into device buffer etc.

4) Information maintaince.
These System calls handle Information and its transfer between the OS and the user program

5) Communication
These System calls are useful for interprocess communication. Th also deals with creating and deleting communication connection.

A Program or application under execution is called process. A process includes the execution context. A program resides on the disk. A program gets loaded in main memory so it should be transferred from disk to memory.



New
1) The process being created

2) Ready state
process ready to run but it is waiting for cpu assigned

Executing state
process is said to be running state it is currently executing.

Waiting
A process (is) waiting for the execution because it is waiting for event to happen such as I/o completion.