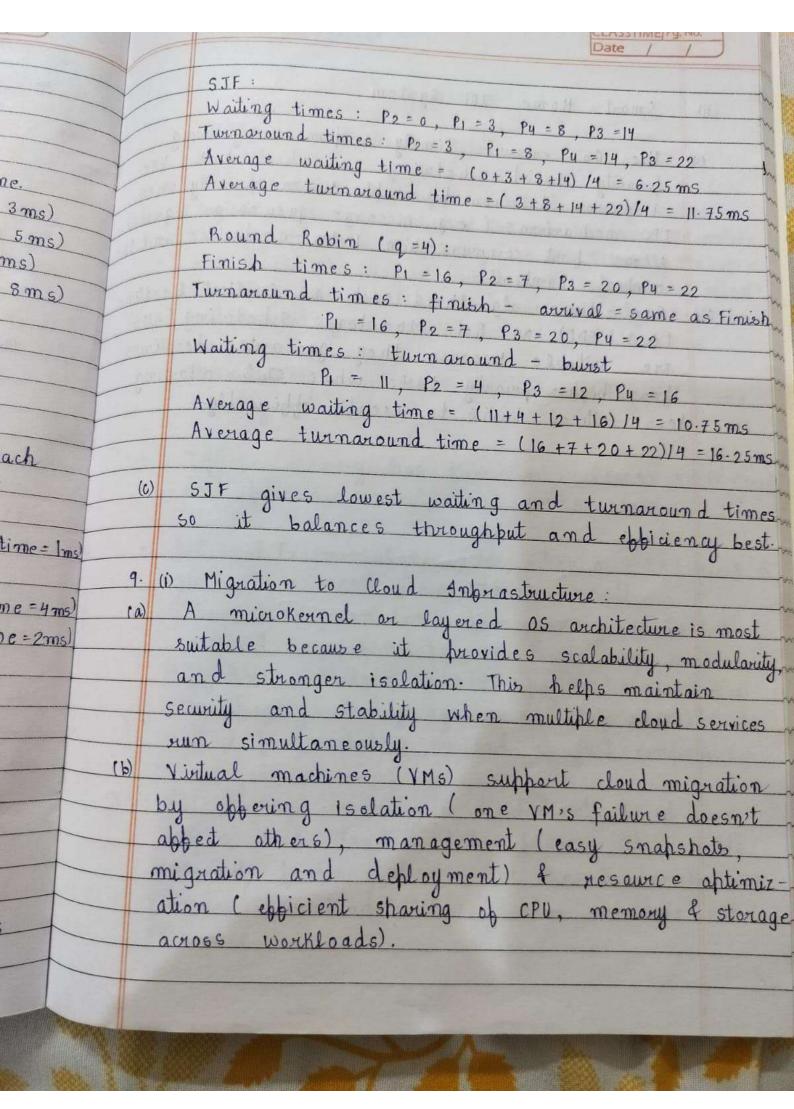
```
(SJF) (Non - Preemptive Shortest Job First):
   The order of execution is based on burst time.
   P2 executes from oms to 3 ms (burst time = 3 ms)
   Pr executes from 3 ms to 8 ms 1 burst time = 5 ms)
   Py executes from 8 ms to 14 ms (burst time = 6 ms)
   P3 executes from 14ms to 22ms (burst time = 8ms)
   Round Robin ( Quantum = 4 ms)
     Processes are executed in cyclic manner with each
    process getting a time slice of 4 ms.
   Process Pi is executed for 4ms (nemaining burst time= In
   Process P2 is executed for 3 ms (completed)
   Process P3 is executed for 4ms ( nemaining burst time=4m)
   Process Py is executed for 4ms ( remaining burst time = 2ms
   Process Pi is executed for 1 ms (completed)
   Process P3 is executed for 4ms (completed)
    Process Py is executed for 2 ms (completed)
(b) F CFS:
    Waiting Times: P1 = 0, P2 = 5, P3 = 8, P4 = 16
    Turnaround times: P1=5, P2=8, P3 = 16, P4=22
     Average waiting time = (0+5+8+16)/4 = 7.25 ms
    Average turnaround time = (5+8+16+22)14 = 12.75ms
```



INN	Smart Home IOT System
(Ji)	timely responses by using
(a)	The Os ensures timely neshouses by using the priority - based scheduling so critical tasks like priority - based scheduling tower - priority ones.
	priority - based scheduling somet lower-priority ones. Intrusion detection price mpt lower-priority ones. Intrusion detection price message queues on signals)
	interist on contract of sign ()
	TPC mechanisms (e.g. message transformation between devices and the allows bast communication between devices and the
	central controller. central controller. such as Earliest Deadline
(4)	central controller. Real-time algorithms such as Earliest Deadline
(.0/_	First (EDF) Unavante e deadlines
	First (FDF) on Rale Monto to manante e deadlines are suitable because they guarante e deadlines for high - priority tasks while still allowing for high - priority tasks while still allowing
	for high - priority tashs wante elepiciently.
18.33	for high-priority tasks to execute eppiciently.
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