OS Lab 11

Simulation of preemptive scheduling Algorithms

(Round Robin)

Task 1:

Consider AT = 0 for all processes, consider TQ=5 and BT multiple of 5.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PID | AT | BT | ST (start time) | ET | WT (ET-BT-AT) | TAT (BT + WT)  or ET-AT |
| 0 | 0 | 15 | 0 | 50 | 35 | 50 |
| 1 | 0 | 30 | 5 | 80 |  |  |
| 2 | 0 | 5 | 10 | 15 |  |  |
| 3 | 0 | 10 | 15 | 40 |  |  |
| 4 | 0 | 20 | 20 | 70 |  |  |
|  |  |  |  |  |  |  |

Time Quantum = 5

No of iteration = maximum BT of Process / TQ (30/5=6)

Task 2:

Consider different arrival times, consider different BTs (not necessary multiple of 5).