1. Write a C program to implement following scheduling algorithm for the input data given in table 1.
   1. FCFS scheduling algorithm
   2. SJF scheduling algorithm
   3. SRJF scheduling algorithm
   4. Preemptive priority scheduling algorithm
   5. Non preemptive priority scheduling algorithm
   6. Round robin scheduling algorithm (Time Quantum = 2)

Output must be displayed as shown in table 2:

Table 1 : Input Table

|  |  |  |  |
| --- | --- | --- | --- |
| Process Name | CPU Burst Time | Arrival Time | Priority |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 2: Output Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Process Name | CPU Burst Time | Arrival Time | Priority | Turnaround Time | Waiting Time |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Average Turnaround Time = XXX

Average Waiting Time = XXX