Assignment-5

Write a c/Java program for simulation of (1). Shortest Job First (SJF) (2). Shortest Remaining Time First (SRTF) CPU scheduler.

Program should maintain Ready_Q using process pointers. Each Process should have cpu time and arrival time. Cpu time and arrival time should be generated randomly. Demonstrate processes context switch according to SRTF Scheduling.

```
Struct process
{
Int pid;
Int cpu time;
Int arrival time;
Struct process * next;
}
Void main()
{
Initialize
Generate n no of process.
Assign process id serially to each process.
Randomly generate cpu_time and arrival_time for each process.
Create & initialize Ready_Q with n no of processes.
*/
Untill Ready Q <> empy
{
select Queue Ready_Q
Randomly generate current time requirement out of total time requirement for
corresponding process present on the front of corresponding queue.
```

Call delay for current time no of times.

Subtract current time from total cpu time & update total cpu time

Shift process to another queue.

```
displyQueue.
}
```