CSE 321 : LAB ASSIGNMENT
Job Scheduling Algorithms

- Consider that, there is one computer to do 5 printing jobs A, B, C, D, E. The estimated printing times of 10, 6, 2, 4 and 8 minutes respectively. Their (externally determined) priorities were 3, 5, 2, 1 and 4, respectively with 5 being the highest priority. Arrival times of the jobs are 0, 3, 5, 1, 4 respectively.

Write a program for the following scheduling algorithms to determine the end times of each job. Ignore type switching overhead. All jobs are CPU bound.

a) Round Robin (Preemptive multiprogramming. Each job gets its fair share of CPU).
b) Priority (Each job runs to completion without being preempted).
c) First Come First Served (Processes run to completion in the order of arrival).
d) Shortest Job First (Each job runs to completion without being preempted).

Input:	**Output:**
/*Job(Title,Burst Time,Priority,Arrival Time)*/ **Task1(A,10,3,0)** **Task2(B,6,5,12)** **Task3(C,2,2,5)** **Task4(D,4,1,1)** **Task5(E,8,4,4)**	**Round Robin:** D:8 C:18 E:26 A:28 B:30 **Priority Scheduling:** A:10 E:18 B:24 C:26 D:30 **FCFS:** A:10 B:14 C:22 D:24 E:30 **SJF:** A:10 C:12 D:16 B:22 E:30