

5th Semester - UE18CS305 – Operating Systems Laboratory

WEEK 4: SJF and Priority Scheduling Date: 18/09/2020

OBJECTIVE:

Understanding and Simulating Shortest Job First Scheduling and Priority Scheduling Algorithms

CPU SCHEDULING CONCEPTS ARE ALREADY COVERED IN THEORY

STUDENTS ARE ADVISED TO REFER TO THE TEXT BOOK AND THE LECTURE MATERIAL

SHARED IN THE CLASS TO IMPLEMENT THE GIVEN PROGRAMS.
STUDENTS ARE REQUIRED TO PROVIDE PROOF OF CONDUCTION (AS PER SUBMISSION BELOW) FOR BOTH THE PROGRAMS.

SUBMISSION:

1. The source code files for both the programs should be uploaded to EDMODO separately in WORD or ZIP FORMAT.

2. All the screenshots clearly showing the directory name as YOURSRN_NAME_WEEK4 and the program output should be uploaded to EDMODO in a SEPARATE FILE (Word or PDF format only, Do NOT zip this file).

Students should keep these TWO deliverables (i.e. 1 & 2 above) separate and NOT zip all the files together in order to facilitate quick, timely and effective evaluation.

Contact your respective Lab faculty for any questions or clarifications needed.

DUE DATE FOR SUBMISSION: 24/09/2020 11:59 PM

5th Semester - UE18CS305 – Operating Systems Laboratory

PROGRAMS FOR EXECUTION AND SUBMISSION:

1. Write a C program to implement Shortest-Job-First scheduling algorithm.

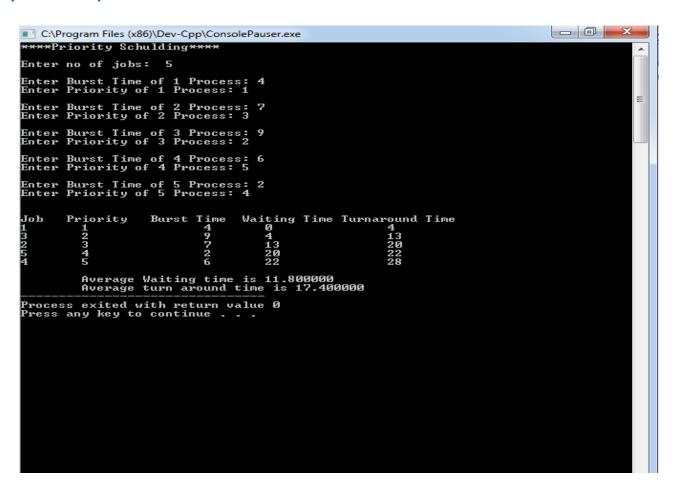
Expected Output:



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2. Write a C program to implement Priority Scheduling algorithm.

Expected Output:



NOTE:

Your programs can take input in the manner shown in the screenshots or in any other manner. Output should be printed in the same format as shown in the screenshots clearly showing Average Waiting time and Turnaround time values.