

Lab # 2: Scheduling

OBJECTIVE

The objective of this lab is to simulate the concept of scheduling a number of jobs (tasks).

TASK

Write down a program in C++ which shows the following simulation:

Input a number of jobs from user until “0” is entered. Each job comprises of a name (e.g. report.doc, assign1.pdf), size (e.g. 40KB, 1MB), and priority. As an output, show each job’s data when:

- a. Program processes each job according to the priority in an ascending order.
- b. Program processes each job depending on the size i.e. the job with smallest size will be executed first.
- c. Program gives priority to the files having extension “.doc”.

SAMPLE INPUT & OUTPUT

I/P			O/P for a	O/P for b	O/P for c
<i>Name</i>	<i>Size</i>	<i>Priority</i>	Processing Started:	Processing Started:	Processing Started:
-----			assign1.pdf	report.doc	report.doc
report.doc	40KB	2	report.doc	assign1.pdf	assign2.doc
assign1.pdf	1MB	1	assign2.doc	assign2.doc	assign1.pdf
assign2.doc	2MB	3	Processing Finished	Processing Finished	Processing Finished

SUBMISSION

Individually submit this task with in lab timings.