

## COMSATS UNIVERSITY ISLAMABAD ATTOCK CAMPUS

**Lab Report 9: Operating System** 

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Rubrics Assessment Sheet for Operating System				
Lab #:	Lab no 9			
Lab Title:	Multi Level Queue Scheduling Algorithm			
Submitted by:				
Names		Registration		
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Rubrics name&number		Marks	
		ln-Lab	Post lab
Engineering Knowledge	R2:Use of Engineering Knowledge and follow Experiment Procedures: Ability to follow experimental procedure, control variables, and record Procedural steps on lab report.		
Problem Analysis	R6: Experimental Data Analysis : Ability to interept findings, compare them to values in the literature, identify weaknesses and limitations		
Design	RS: Best Coding Staudards: Ability lofollow the coding standards and programming practices		
Modem Tools Usage	R9: Understalld Tools: Ability to describe and explain the principles behind applicability of engineering tools.		
Individual and Teamwork	R9:Management of Team Work: Ability to appreciate, understand and work multidisciplinary team members		

Rubrics #	R2	R6	RS	R9	R13
Jn -Lab					
Post- Lab					

## **Description:**

In Multi Level Queue Scheduling Algorithm the processes in the ready queue can be divided into different classes where each class has its own scheduling needs.

## **IN-LAB QUESTIONS**

Q: Write a C program to simulate multi-level queue scheduling algorithm considering the following scenario. All the processes in the system are divided into three categories – system processes, user processes and I/O processes. System processes are to be given higher priority than user processes and I/O. Consider each process priority to be from 1 to 3. Use priority scheduling for the processes in each queue

Answer:

Code:

```
Untitled2.c

| p[k]=temp; | temp=bt[i]| | bt[i]=bt[k]| | bt[i]=bt[k]| | bt[i]=bt[k]| | bt[i]=bt[k]| | bt[i]=bt[k]| | bt[i]=bt[k]| | bt[i]=su[k]| | su[i]=su[k]| | su[i]=su[i]=su[i]| | su[i]=su[i]=su[i]| | su[i]=su[i]=su[i]| | su[i]=su[i]=su[i]| | su[i]=su[i]=su[i]| | su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[i]=su[
```

## Output:

