

Course: Operating System and System Programming Lab

Course Code: CSTE-3108

Time: 1:30 Hours

SET-A

Marks: 40

1.	Write a C program to demonstrate the producer-consumer process.	15																		
2.	<p>Write a Priority Scheduling Program in C to determine the waiting time for each process and the average waiting time for given n processes and their burst times. Also, find the process execution sequence.</p> <p>Sample input:</p> <table><tr><th>Process</th><th>Burst time</th><th>Priority</th></tr><tr><td>P₁</td><td>2</td><td>2</td></tr><tr><td>P₂</td><td>1</td><td>1</td></tr><tr><td>P₃</td><td>8</td><td>4</td></tr><tr><td>P₄</td><td>4</td><td>2</td></tr><tr><td>P₅</td><td>5</td><td>2</td></tr></table>	Process	Burst time	Priority	P ₁	2	2	P ₂	1	1	P ₃	8	4	P ₄	4	2	P ₅	5	2	15
Process	Burst time	Priority																		
P ₁	2	2																		
P ₂	1	1																		
P ₃	8	4																		
P ₄	4	2																		
P ₅	5	2																		
3.	Write a shell script to classify a triangle as Equilateral , Isosceles , or Scalene , based on three given sides.	10																		

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