



Assignment No	Assignment 1	Year/Semester	Fourth Year - VIIIth Semester
Subject	CST402-DISTRIBUTED COMPUTING	Branch	CSE
Issue Date	2026-01-27 10:06:17	Maximum Mark	15

Instructions to students

Sl.No	Batch	Q.No
1	Roll no. 1-5	1
2	Roll no. 6-10	2
3	Roll no. 11-15	3
4	Roll no. 16-20	4
5	Roll no. 21-25	5
6	Roll no. 26-30	6
7	Roll no. 31-35	7
8	Roll no. 36-40	8
9	Roll no. 41-45	9
10	Roll no. 46-50	10
11	Roll no. 51-55	11
12	Roll no. 56-62	12

Answer Any One Question(s)

Q No.	Questions	Marks	CO	Level
1.	<p>Bully algorithm for distributed file system.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ul style="list-style-type: none">a) The need and importance of the algorithm for the particular system.b) Description of the system.c) Real time applications of the system.d) Requirements to implement the algorithm in the system.	15	CO1,CO2	L2

2.	<p>Ring algorithm for distributed file system.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ol style="list-style-type: none"> The need and importance of the algorithm for the particular system. Description of the system. Real time applications of the system. Requirements to implement the algorithm in the system. 	15	CO1,CO2	L2
3.	<p>Chandy lamport algorithm for distributed debugging.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ol style="list-style-type: none"> The need and importance of the algorithm for the particular system. Description of the system. Real time applications of the system. Requirements to implement the algorithm in the system. 	15	CO1,CO2	L2
4.	<p>Ricart agrawala algorithm for distributed system.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ol style="list-style-type: none"> The need and importance of the algorithm for the particular system. Description of the system. Real time applications of the system. Requirements to implement the algorithm in the system. 	15	CO1,CO2,CO3	L2
5.	<p>Maekawa's algorithm for distributed system.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ol style="list-style-type: none"> The need and importance of the algorithm for the particular system. Description of the system. Real time applications of the system. Requirements to implement the algorithm in the system. 	15	CO1,CO3	L2
6.	<p>Suzuki kasami's broadcast algorithm for distributed database.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ol style="list-style-type: none"> The need and importance of the algorithm for the particular system. Description of the system. Real time applications of the system. Requirements to implement the algorithm in the system. 	15	CO1,CO3	L2

7.	<p>Lamport's algorithm for distributed file system.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ol style="list-style-type: none"> The need and importance of the algorithm for the particular system. Description of the system. Real time applications of the system. Requirements to implement the algorithm in the system. 	15	CO1,CO3	L2
8.	<p>Bully algorithm for distributed database.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ol style="list-style-type: none"> The need and importance of the algorithm for the particular system. Description of the system. Real time applications of the system. Requirements to implement the algorithm in the system. 	15	CO1,CO2	L2
9.	<p>Ring algorithm in IoT network.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ol style="list-style-type: none"> The need and importance of the algorithm for the particular system. Description of the system. Real time applications of the system. Requirements to implement the algorithm in the system. 	15	CO1,CO2	L2
10.	<p>Lamport's algorithm for distributed database.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ol style="list-style-type: none"> The need and importance of the algorithm for the particular system. Description of the system. Real time applications of the system. Requirements to implement the algorithm in the system. 	15	CO1,CO3	L2
11.	<p>Suzuki kasami's broadcast algorithm in IoT network.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <ol style="list-style-type: none"> The need and importance of the algorithm for the particular system. Description of the system. Real time applications of the system. Requirements to implement the algorithm in the system. 	15	CO1,CO3	L2

12.	<p>Lamport's algorithm for distributed file system.</p> <p>Instructions:</p> <p>Give a detailed presentation of the given algorithm with respect to the specified distributed system. The presentation should include the following:</p> <p>a) The need and importance of the algorithm for the particular system.</p> <p>b) Description of the system.</p> <p>c) Real time applications of the system.</p> <p>d) Requirements to implement the algorithm in the system.</p>	15	CO1,CO3	L2
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CO1: Summarize various aspects of distributed computation model and logical time.

***Level:** Knowledge level based on Blooms Taxonomy

[L2.Understanding(U)]