

## SUBMISSION REPORT FH 2022

**Subject: Distributed Computing (DC)**

**Class: BE (B)**

**Name of student: Amey Mahendra Thakur**

**College ID: TU3F1819127**

**Roll No: 50**

### INDEX

Sr. No.	particulars	Submitted/Not Submitted or Enter Marks received
<b>Experiments (10 M)</b>		
1	Experiment No. 1	<b>10/10</b>
2	Experiment No. 2	<b>10/10</b>
3	Experiment No. 3	<b>10/10</b>
4	Experiment No. 4	<b>10/10</b>
5	Experiment No. 5	<b>7/10</b>
6	Experiment No. 6	<b>8/10</b>
7	Experiment No. 7	<b>8/10</b>
8	Experiment No. 8	<b>10/10</b>
9	Experiment No. 9	<b>7/10</b>
10	Experiment No. 10	<b>8/10</b>
<b>Assignments (5 M)</b>		
11	Assignment No. 1	<b>Submitted</b>
12	Assignment No. 2	<b>Submitted</b>
13	Assignment No. 3	<b>Submitted</b>

<b>Research Paper Presentation</b>		
14	Research Paper Presentation (RPP)	<b>Submitted</b>
<b>Quizzes</b>		
15	DC Quiz - 1 [CO1]	<b>10/10</b>
16	DC Quiz - 2 [CO2]	<b>10/10</b>
17	DC Quiz - 3 [CO3]	<b>10/10</b>
18	DC Quiz - Module 4 [CO4] to Module 6 [CO6]	<b>30/30</b>
<b>Exit Survey</b>		
19	DC Course Exit survey	<b>Submitted</b>
20	DC Laboratory Exit survey	<b>Submitted</b>

**Signature of students:**

Amey

## CSL802: Distributed Computing Lab

Terna Public Charitable Trust  
Terna Engineering College

Plot No. 12, Sector-22, Opp. Nerul Railway Station,  
Phase-II, Nerul (W),

Phone No. : 912261115444 Website : <https://www.ternaengg.ac.in> Email ID : principal@ternaengg.ac.in

### SUBMISSION REPORT

<b>Subject</b>	: Distributed Computing Lab	<b>Type</b>	: Practical
<b>Subject Code</b>	: CSL802	<b>Credit Points</b>	: 1.00
<b>Semester</b>	: SEM-VIII	<b>Faculty</b>	: Mrs. ROHINI PATIL
<b>GR No.</b>	: TU3F1819127	<b>Name</b>	: THAKUR AMEY MAHENDRA
<b>Class</b>	: BE-B(COMP)	<b>Roll No.</b>	: B50
<b>Program</b>	: B.E.	<b>Academic Year</b>	: 2021-2022

### ASSIGNMENTS

Sr. No.	Title	Status	Marks Obtained	Faculty Comments	Sign/Remarks
1.	Ex-1	Pending			
2.	Ex-2	Submitted	10.00		
3.	Ex-3	Submitted	10.00		
4.	exp-1	Pending			
5.	exp-2	Pending			
6.	exp-3	Submitted	10.00		
7.	Experiment-1	Submitted	10.00		
8.	Experiment-10	Submitted	8.00		
9.	Experiment-2	Submitted	10.00		
10.	Experiment-3	Pending			
11.	Experiment-4	Submitted	10.00		
12.	Experiment-5	Submitted	7.00		
13.	Experiment-6	Submitted	8.00		
14.	Experiment-7	Submitted	8.00		
15.	Experiment-8	Submitted	10.00		
16.	Experiment-9	Submitted	7.00		
17.	Expt-3	Pending			

### QUIZ

Sr. No.	Quiz Name	Status	Marks Obtained	Faculty Comments	Sign/Remarks
---------	-----------	--------	----------------	------------------	--------------

**Signature** : \_\_\_\_\_  
**Date** : Thursday, April 14, 2022

## CSC802: Distributed Computing

**Terna Public Charitable Trust**  
**Terna Engineering College**

Plot No. 12, Sector-22, Opp. Nerul Railway Station,  
Phase-II, Nerul (W),

Phone No. : 912261115444 Website : <https://www.ternaengg.ac.in> Email ID : principal@ternaengg.ac.in

### SUBMISSION REPORT

<b>Subject</b>	: Distributed Computing	<b>Type</b>	: Theory
<b>Subject Code</b>	: CSC802	<b>Credit Points</b>	: 4.00
<b>Semester</b>	: SEM-VIII	<b>Faculty</b>	: Mrs. ROHINI PATIL
<b>GR No.</b>	: TU3F1819127	<b>Name</b>	: THAKUR AMEY MAHENDRA
<b>Class</b>	: BE-B(COMP)	<b>Roll No.</b>	: B50
<b>Program</b>	: B.E.	<b>Academic Year</b>	: 2021-2022

### ASSIGNMENTS

Sr. No.	Title	Status	Marks Obtained	Faculty Comments	Sign/Remarks
1.	Assignment-1	Submitted			
2.	Assignment-2	Submitted			
3.	Assignment-3	Submitted			
4.	RPP	Submitted			
5.	Submission Report_DC_FH2022	Pending			

### QUIZ

Sr. No.	Quiz Name	Status	Marks Obtained	Faculty Comments	Sign/Remarks
---------	-----------	--------	----------------	------------------	--------------

**Signature** : \_\_\_\_\_  
**Date** : Thursday, April 14, 2022

## DC Assignment 1

### COMPUTER ENGINEERING DEPARTMENT

#### ASSIGNMENT NO. 1

#### Subject: Distributed Computing

COURSE: B.E

Year: 2021-2022

Semester: VIII

DEPT: Computer Engineering

SUBJECT CODE: CSC802

DUE DATE: 11/03/2022

Roll No.: 50

Name: Amey Mahendra Thakur

Class: BE-Comps B

Date of Submission: 11/03/2022

#### DC Assignment - 1

Sr. No.	Questions
1	Discuss the common issues with which the designer of a heterogeneous distributed system must deal.
2	Discuss different models of middleware.
3	Discuss the call semantics of RPC.
4	Discuss the stream-oriented communication in detail.
5	Explain Berkeley Algorithm and Cristian Algorithm along with advantages and disadvantages.
6	Discuss Meakawa Algorithm with an example along with deadlock handling messages.

Student Signature:

Amey

AMEY

THAKUR

B-50

Amey

Step 10:

- Then 13 can send locked message (L) to 7 which enters CS.

Step 11:

- When 7 finished, sends RELEASE message

Step 12:

- Then 8 locks all members, sends RELEASE

Step 13:

- Then 11 enters CS.

BB  
21/3/22

## DC Assignment 2

### COMPUTER ENGINEERING DEPARTMENT

#### ASSIGNMENT NO. 2

#### Subject: Distributed Computing

COURSE: B.E

Year: 2021-2022

Semester: VIII

DEPT: Computer Engineering

SUBJECT CODE: CSC802

DUE DATE: 25/03/2022

Roll No.: 50

Name: Amey Mahendra Thakur

Class: BE-Comps B

Date of Submission: 25/03/2022

#### DC Assignment - 2

Sr. No.	Questions
1	Compare Task assignment approach, Load Balancing Approach and Load Sharing Approach.
2	Discuss Code Migration in detail.
3	Justify the need for a client consistency model in comparison with the data-centric consistency model and discuss any two client-centric consistency models.
4	Discuss any 4 data-centric consistency models.
5	Describe file caching schemes.
6	Discuss Google case study in detail.

Student Signature:

Amey

### ③ Big Table :

- It is a very large scale distributed table indexed by rows, columns & timestamp.
- It supports semi-structured & structured data on the top of GFS.
- It is used by over 60 google products including google earth.

### ④ Map Reduce:

- It is a service offering a simple programming model for large scale computation over very large datasets.
- It hides parallelism, load balancing, optimization, failure / recovery techniques.

BSS  
25/3/22



## DC Assignment 3

### COMPUTER ENGINEERING DEPARTMENT

#### ASSIGNMENT NO. 3

**Subject: Distributed Computing**

COURSE: B.E

Year: 2021-2022

Semester: VIII

DEPT: Computer Engineering

SUBJECT CODE: CSC802

DUE DATE: 25/03/2022

Roll No.: 50

Name: Amey Mahendra Thakur

Class: BE-Comps B

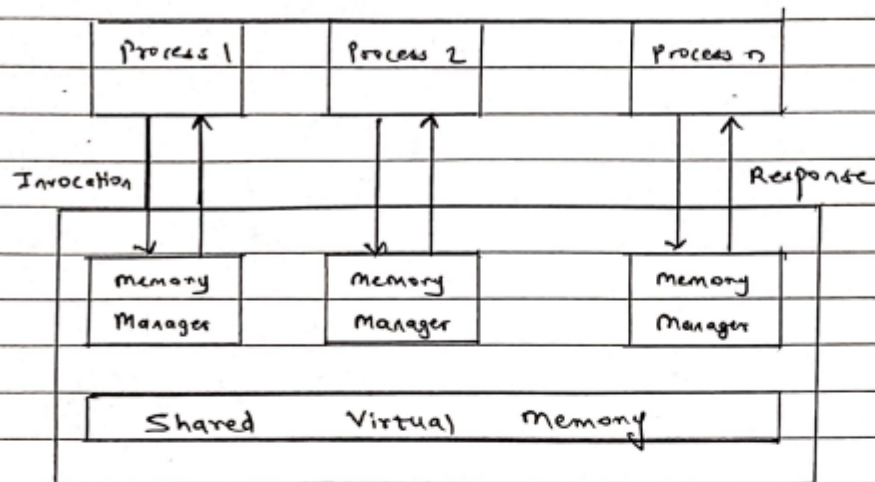
Date of Submission: 25/03/2022

#### DC Assignment - 3

Sr. No.	Questions
1	Discuss distributed shared memory with an application in detail.

Student Signature:

Amey



### Application :

#### Orca

- It is an object based programming language & distributed shared memory system.
- In Orca, objects are in line with the conventional conception of objects.

eg - An object is a set of data & set of methods.

- It is based on distributed coherent objects

eg - Orca doesn't invalidate objects on write, but propagate the write to all copies of objects

- This is done by sending the writer to a primary copy & an object. ~~The~~ node that holds this will then update all copies.

- Coherence is still an active research system & proven very good performance on a set of applications that are not necessarily focused on linear algebraic problems.

BH  
31/3/22

# Research Paper Presentation

## A COMPARATIVE STUDY ON DISTRIBUTED FILE SYSTEMS

CSC802: Distributed Computing

Module 6: Distributed File Systems

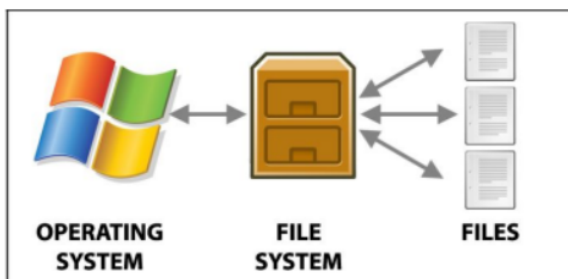
Presentation by:

Amey Thakur

Hasan Rizvi

Mega Satish

### AGENDA



1. Abstract
2. Introduction
3. Literature Survey
4. Network File System (NFS)
5. Andrew File System (AFS)
6. Google File System (GFS)
7. Hadoop Distributed File System (HDFS)
8. Comparison
9. Conclusion
10. References

## Quizzes

### Quiz 1 - Module 1

DC_1_FH_22[co1]	Total points	10/10	?
Email *			
ameythakur@ternaengg.ac.in			
Name of Student *			
AMEY MAHENDRA THAKUR			
Roll no *			
50			

## Quiz 2 - Module 2

DS\_2\_FH\_22[co2]

Total points 10/10 ?

Email \*

ameythakur@ternaengg.ac.in

Name of student \*

AMEY MAHENDRA THAKUR

Roll no \*

50

### Quiz 3 - Module 3

DS\_3\_FH\_22[co3]

Total points 10/10 ?

Email \*

ameythakur@ternaengg.ac.in

Name of student \*

AMEY MAHENDRA THAKUR

Roll no \*

50

## Quiz 4 - Module 4 to Module 6



### QUIZ II for Distributed Computing\_Mod-IV to Mod-VI

Total points **30/30** ?

Email \*

ameythakur@ternaengg.ac.in

0 of 0 points

Name \*

AMEY THAKUR

Roll no. \*

50

DC Quiz

30 of 30 points

ALL THE BEST

## Exit Survey

Thanks for filling out [Distributed Computing\(TH \)Course exit survey](#)

Here's what was received.

### Distributed Computing(TH )Course exit survey

All the students have to submit this survey as per course content understanding.

Your email ([ameythakur@ternaengg.ac.in](mailto:ameythakur@ternaengg.ac.in)) was recorded when you submitted this form.

Roll no \*

50

Theory Exit Survey

Laboratory Exit Survey

Signature \*

AMEY MAHENDRA THAKUR