

SUBMISSION REPORT FH 2022

Subject: Cloud Computing Laboratory (CCL)

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
Experiments (10 M)		
1	Experiment No 1 - Cloud Architecture	10/10
2	Experiment No 2A - Virtualization-VMware	10/10
3	Experiment No 2B - Virtualization-Virtual Box	10/10
4	Experiment No 3 - AWS EC2	10/10
5	Experiment No 4 - AWS S3	10/10
6	Experiment No 5 - AWS S3 to deploy static website	10/10
7	Experiment No 6 - AWS-Light Sail	10/10
8	Experiment No 7 - AWS-IAM	10/10
9	Experiment No 8 - Fog computing	10/10
Assignments (5 M)		
10	Assignment No 1	10/10
11	Assignment No 2	10/10
Quizzes (5 M)		
12	Quiz covering overall syllabus-Quiz 1	10/10
13	Quiz covering overall syllabus-Quiz 2	20/20

CCL Mini Project(20 M)		
14	Using the concepts studied throughout the semester students need to create; Create cloud applications such as messenger, photo editing website, your own social media etc, which are demonstrating any cloud deployment model like PAAS, IAAS, SAAS etc. (Implementation:10 M)	Submitted
15	Project PPT (5 M)	5/5
16	Project Report (5 M)	5/5
Honeywell Certificate		
17	Honeywell Certificate	Not Received
Exit Survey		
18	CCL Laboratory exit survey	Submitted


Signature of students:

Amey


1. Screenshots of marks received from all experiments.

Experiment 1: 10/10


Hi AMEY,
Reshma Vartak just returned [CCL_Exp_No_1_NIST Model of Cloud](#) in [BE_B_CCL_FH 2022](#).


**GRADED**
CCL_Exp_No_1_NIST Model of Cloud
Grade: 10/10


Open


**CCL_Exp_No_1_NIST Model of Cloud**
Reshma Vartak • Jan 10
10/10
Due Jan 16

Upload part B of Exp No 1: CCL_Exp_No_1_NIST Model of Cloud up to 16 Jan 2022


**CCL Experiment No 1_Cloud ...**
Word


 Class comments
[Add a class comment](#)

Your work Graded
 AMEY_B-50_CCL_... PDF
[+ Add or create](#)
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 Private comments
[Add comment to Reshma Vartak](#)

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Experiment 2A: 10/10

Hi AMEY,
Reshma Vartak just returned CCL_Exp_No_2A_Virtualization using VMWare in
BE_B_CCL_FH 2022.



GRADED

CCL_Exp_No_2A_Virtualization using VMWare

Grade: 10/10

Open



CCL_Exp_No_2A_Virtualization using VMWare

Reshma Vartak • Jan 17

10/10

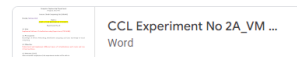
Due Jan 22

CCL_Exp_No_2A_Virtualization using VMWare, perform above exp and create virtual machines using VMWare.

Use Below drive link

https://drive.google.com/drive/folders/1_kx6Uz0fk0df4HFjySrfaeGa05VO-GJ?usp=sharing

to get sample material of Virtualization Exp



Class comments

[Add a class comment](#)

Your work

Graded



[+ Add or create](#)

Resubmit

3 private comments

Reshma Vartak Jan 21
Very good

AMEY THAKUR Jan 21
Thank you ma'am.

I have one doubt.
Can we perform virtualization
on AWS?
It would be far more convenient
as we have that platform
available.

Reshma Vartak Jan 21
yes, you can

[Add private comment...](#)

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AMEY THAKUR

ameythakur@ternaengg.ac.in

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Experiment 2B: 10/10

Hi AMEY,

Reshma Vartak just returned [CCL_Exp_No_2B_Virtualization using Virtual Box](#) in BE_B_CCL_FH 2022.



GRADED

CCL_Exp_No_2B_Virtualization using Virtual Box

Grade: 10/10

Open



CCL_Exp_No_2B_Virtualization using Virtual Box

Reshma Vartak • Jan 24

10/10

Due Jan 29

Implement
virtualization using Virtual box



CCL Experiment No 2B_Virtu...
Word

Class comments

[Add a class comment](#)

Your work

Graded



AMEY_B-50_CCL_...
PDF

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Resubmit

2 private comments



Reshma Vartak Jan 24
Very Gud. Keep Going



AMEY THAKUR Jan 24
Thanks ma'am



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Experiment 3: 10/10

Hi AMEY,
Reshma Vartak just returned [CCL_Exp_No_3_laas Using AWS EC2](#) in [BE_B_CCL_FH 2022](#).




GRADED

CCL_Exp_No_3_laas Using AWS EC2

Grade: 10/10

[Open](#)


**CCL_Exp_No_3_laas Using AWS EC2**

Reshma Vartak • Jan 31


10/10

Due Feb 7

Implement laas Using AWS EC2




CCL Experiment No 3_EC2 S...
Word

Class comments

[Add a class comment](#)

Your work




AMEY_B-50_CCL_...
PDF

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Experiment 4: 10/10

Hi AMEY,

Reshma Vartak just returned [CCL_Exp_No_4_S3 Service](#) in [BE_B_CCL_FH 2022](#).



GRADED

CCL_Exp_No_4_S3 Service

Grade: 10/10

[Open](#)



CCL_Exp_No_4_S3 Service

Reshma Vartak • Feb 14
10/10

Due Feb 19

To demonstrate and implement Storage as a service
using AWS S3 Service



CCL Experiment No 4_AWS ...
Word

Class comments

[Add a class comment](#)

Your work

Graded



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Experiment 5: 10/10

Hi AMEY,

Reshma Vartak just returned [CCL_Experiment_No_5_Implement PaaS using AWS S3](#) in [BE_B_CCL_FH 2022](#).



GRADED

CCL_Experiment_No_5_Implement PaaS using AWS S3

Grade: 10/10

[Open](#)



CCL_Experiment_No_5_Implement PaaS using AWS S3

Reshma Vartak • Feb 18

10/10

Due Feb 25

CCL_Experiment_No_5_Implement PaaS using AWS S3



CCL Experiment No 5_AWS ...
Word

Class comments

[Add a class comment](#)

Your work

Graded

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Experiment 6: 10/10

Hi AMEY,

Reshma Vartak just returned [CCL_Exp_No_6_Deploy Website on commercial cloud_PaaS_Using_AWS Light Sail](#) in BE_B_CCL_FH 2022.




GRADED

CCL_Exp_No_6_Deploy Website on commercial
cloud_PaaS_Using_AWS Light Sail

Grade: 10/10

[Open](#)




CCL_Exp_No_6_Deploy Website on commercial cloud_PaaS_Using_AWS Light Sail

Reshma Vartak • Feb 21


10/10

Due Mar 11

Deploy web applications on commercial cloud (PAAS)(AWS-Light Sail)




CCL Experiment No 6_Light ... Word

 Class comments

[Add a class comment](#)

Your work


Graded



AMEY_B-50_CCL_... PDF


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Experiment 7: 10/10

Hi AMEY,

Reshma Vartak just returned [CCL_Exp_No_7_IAM](#) in [BE_B_CCL_FH 2022](#).



GRADED

[CCL_Exp_No_7_IAM](#)

Grade: 10/10

[Open](#)



[CCL_Exp_No_7_IAM](#)

Reshma Vartak • Feb 21
10/10

Due Mar 18

Understand
Security of Web Server and demonstration of IAM using own cloud/AWS



CCL Experiment No 7_Cloud...
Word

Class comments

[Add a class comment](#)

Your work

Graded

AMEY_B-50_CCL_...
PDF

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Experiment 8: 10/10

Hi AMEY,
Reshma Vartak just returned [CCL_Exp_No_8_Fog Computing_A Case Study](#) in
BE_B_CCL_FH 2022.



GRADED

CCL_Exp_No_8_Fog Computing_A Case Study
Grade: 10/10

Open



CCL_Exp_No_8_Fog Computing_A Case Study

Reshma Vartak • Mar 10
10/10

Due Mar 26

Learn and understand for computing and differentiate between fog computing and cloud computing



CCL Experiment No 8_Fog c...
Word

Class comments

Add a class comment

Your work

Graded

AMEY_B-50_CCL_...
PDF

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2. Screenshot of mark received for CCL Assignment No. 1

Hi AMEY,
Reshma Vartak just returned CCL_Assignment No 1 in BE_B_CCL_FH 2022.



GRADED

CCL_Assignment No 1

Grade: 10/10

Open



CCL_Assignment No 1

Reshma Vartak • Feb 14

10/10

Due Feb 28

Dear all please go through the assignment and write down assignment on A4 size paper, scan and upload the same on classroom.

Note: On each page write your name, div and roll no and upload only PDF



CCL assignment No 1.pdf
PDF

Class comments

Add a class comment

Your work

Graded

AMEY_B-50_CCL_...
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COMPUTER ENGINEERING DEPARTMENT

ASSIGNMENT NO. 1

Subject: Cloud Computing

COURSE: B.E

Year: 2021-2022

Semester: VIII

DEPT: Computer Engineering

SUBJECT CODE: CSL803

DUE DATE: 28/02/2022

Roll No.: 50

Name: Amey Thakur

Class: BE-Comps B

Date of Submission: 15/02/2022

CCL Assignment - 1

Sr. No.	Questions	
1	What is service-oriented architecture and explain how it supports cloud computing?	[L01]
2	Explain the Google app engine in detail and which cloud service is provided by GCP.	[L01]
3	Explain in detail various cloud service models.	[L01]
4	What is a hypervisor? Explain the architecture of any bare-metal hypervisor in detail.	[L02]
5	Explain different cloud computing risks and benefits of virtualization.	[L02]
6	What is an OpenStack? Explain in detail.	[L03]

Student Signature:

Amey

AMEY THAKUR

B-50

Amey

CCL Assignment - 1

Q1: What is service oriented architecture and explain how it supports cloud computing.

Ans:


- Service Oriented Architecture (SOA) is a stage in the evolution of application development and integration.
- It defines a way to make software components reusable using the interface.
- SOA is an architectural approach in which applications make use of services available in the network.
- In this architecture, services are provided to form applications through a network call over the Internet.
- It uses common communication standards to speed up and streamline the service integration in applications.

How it supports cloud computing

- Migrating to the cloud is a significant and practical step for any enterprise to do with SOA integration in the cloud environment, business reap many benefits like enhanced performance, security, faster deployments and better monitoring.
- While SOA and cloud computing does exist separately and concurrently, the two technology complement each other well.
- SOA makes it easier to deploy SaaS in cloud platform while the cloud supplies the processing power and other resources required for the process.


3. Screenshot of mark received for CCL Assignment No. 2

Hi AMEY,
Reshma Vartak just returned **CCL_Assignment_No_2** in **BE_B_CCL_FH 2022**.



GRADED
CCL_Assignment_No_2
Grade: 10/10


Open




CCL_Assignment_No_2
Reshma Vartak • Feb 14 (Edited Feb 14)
10/10 Due Mar 30

Dear all please go through the assignment and write down on A4 size paper, scan assignment and upload PDF on Classroom.


Note: Write your name, div and roll no on each page



CCL assignment No 2.pdf
PDF

 Class comments
[Add a class comment](#)

Your work Graded




AMEY_B-50_CCL_...
PDF

[+ Add or create](#)

Resubmit


1 private comment



AMEY THAKUR Feb 14
Ma'am, can you please attach Assignment 2 Questions File. Perhaps you missed it.

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COMPUTER ENGINEERING DEPARTMENT

ASSIGNMENT NO. 2

Subject: Cloud Computing

COURSE: B.E. Year: 2021-2022 Semester: VIII
DEPT: Computer Engineering
SUBJECT CODE: CSL803 DUE DATE: 30/03/2022

Roll No.: 50 Name: Amey Thakur
Class: BE-Comps B Date of Submission: 15/02/2022

CCL Assignment - 2

Sr. No.	Questions	
1	Why is security on the cloud important? Explain various cloud security issues.	[L04]
2	What is Cloud Identity Access Management? Why is it important? Explain features of AWS IAM.	[L04]
3	Explain IaaS Cloud Service Model. Give examples of IaaS models.	[L05 & L06]
4	Explain PaaS Cloud Service Model. Give examples of PaaS models.	[L05 & L06]
5	Explain SaaS Cloud Service Model. Give examples of SaaS models.	[L05 & L06]

Student Signature: Amey

AMEY THAKUR 8-50 8.25.22 Amey

Q1: Why is security on the cloud important? Explain various cloud security issues.

Ans:

Cloud Security Importance

- Cloud security is critical since most organizations are already using cloud computing in one form or another.
- IT professionals remain concerned about moving more data and applications to the cloud due to security, governance and compliance issues when their content is stored in the cloud.
- They worry that highly sensitive business information and intellectual property might be exposed through accidental leaks or due to increasingly sophisticated cyber threats.
- A critical component of cloud security is focused on protecting data and business content such as customer order, secret design documents and financial records.
- Preventing leaks and data theft is critical for maintaining your customer trust and protecting the asset that contribute to your competitive advantage.

Security issues in Cloud Computing

① Data Loss

- Data Loss is one of the issues faced in cloud computing.
- This is also known as Data leakage.
- As we know that our sensitive data is in the hands of somebody else and we don't have full control over our databases.

4. Screenshot of mark received for CCL Quiz 1

Cloud Computing_Quiz 1_Introduction to Cloud Computing_BE_B_Sem_VIII_FH 2022

Total points **10/10** ?

The respondent's email (ameythakur@ternaengg.ac.in) was recorded on submission of this form.

Enter Your Name *

AMEY MAHENDRA THAKUR

Enter Your Roll No *

50

Enter Your Div *

☐ BE Div-A

☒ BE Div-B

☐ BE Div-C

5. Screenshot of mark received for CCL Quiz 2

CCL_Quiz 2_FH 2022_BE Div B_Reshma Koli

Total points **20/20** ?

The respondent's email (ameythakur@ternaengg.ac.in) was recorded on submission of this form.

Enter Your Name *

AMEY MAHENDRA THAKUR

Enter Your Roll No *

50

Enter Your Div *

☐ BE Div-A

☒ BE Div-B

☐ BE Div-C

6. Screenshot of the CCL Mini Project Report

The screenshot shows a web interface for submitting a CCL Mini Project Report. The main heading is "CCL Mini Project_Report" by Reshma Vartak, last edited on Mar 21. The page shows a submission status of 5/5 and a due date of "Due Yesterday". There is a section for uploading the report, with a file named "CCLMini Project Report Rep..." already uploaded. Below this, there are options for "Class comments" and "Private comments". On the right, there is a "Your work" section showing the submitted PDF file and a "Resubmit" button. The user's profile is visible on the far right, showing the name "AMEY THAKUR" and email "ameythakur@ternaengg.ac.in".

The cover page is titled "PIZZA ORDERING CHATBOT USING AMAZON LEX" in red. It is a Mini-Project submitted by four students: AmeY Thakur, Hasan Rizvi, Mega Satish, and Prof. Reshma Koli. The project is submitted in fulfillment of the requirements of the University of Mumbai for the Bachelor of Engineering (Computer Engineering) degree. The page features the Terna Engineering College logo and contact information.

"PIZZA ORDERING CHATBOT USING AMAZON LEX"

Mini- Project

(Fourth Year/ Sem VIII)


Submitted in fulfilment of the requirement of
University of Mumbai For the Degree of

**Bachelor Of Engineering
(Computer Engineering)**

By

1. AMEY THAKUR	BE COMPS B-50	TU3F1819127
2. HASAN RIZVI	BE COMPS B-51	TU3F1819130
3. MEGA SATISH	BE COMPS B-58	TU3F1819139


Under the Guidance of
Prof. Reshma Koli


Knowledge to Empower

Department of Computer Engineering
TERNA ENGINEERING COLLEGE
Plot no.12, Sector-22, Opp. Nerul Railway station,
Phase-11, Nerul (w), Navi Mumbai 400706
UNIVERSITY OF MUMBAI
2021-2022


7. Screenshot of the CCL Mini Project PPT

Hi AMEY,
Reshma Vartak just returned [CCL Mini Project_PPT](#) in [BE_B_CCL_FH 2022](#).



GRADED
CCL Mini Project_PPT
Grade: 5/5


Open



CCL Mini Project_PPT
Reshma Vartak • Mar 10
5/5



Due Apr 9



Dear all each student need to upload CCL mini project PPT here

 Class comments
[Add a class comment](#)

Your work


Graded






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 Private comments
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Knowledge to Empower

PIZZA ORDERING CHATBOT USING AMAZON LEX

Department of Computer Engineering
TERNA ENGINEERING COLLEGE
Nerul (W), Navi Mumbai 400706

CCL MINI PROJECT PRESENTATION

Under the Guidance of :
Prof. Reshma Koli




Group Members:

Amey Thakur	BE B-50
Hasan Rizvi	BE B-51
Mega Satish	BE B-58

8. Screenshot of the CCL Mini Project Demo Video



Test Draft version



Last build submitted: 2 minutes ago

Inspect

Hi


Hello! May I know your name?


I
Amey


Welcome Amey, which pizza would you prefer today?

Indian

Sure. What crust would you like

 Ready for complete testing

 *Type a message*

 Intent saved

Build

Test

9. Screenshot of the Honeywell Certificate

Not Received

10. Screenshot of the Laboratory Exit survey

This screenshot shows a Google Classroom assignment page. The assignment is titled "CCL_Laboratory_Exit Survey" by Reshma Vartak, due yesterday. The instructions ask students to complete the survey and upload a PDF response. A link to the survey form is provided. The right sidebar shows the user's profile (AMEY THAKUR) and a "Your work" section with a PDF titled "CCL Laboratory Exit Su..." and an "Unsubmit" button. There are also links for "Class comments" and "Private comments".

This screenshot shows the survey form titled "CCL Laboratory Exit Survey_BE_COMP_Div B_FH 2022". It indicates that the total points are 0/0. The survey is for the CCL Laboratory Exit Survey FH 2022-Faculty: Mrs. Reshma Koli. A message states that the respondent's email (ameythakur@ternaengg.ac.in) was recorded on submission. The form has two required questions:

- 1 Enter your Full Name *
AMEY MAHENDRA THAKUR
2. Enter your Roll No *
50

Google Classroom



AMEY THAKUR

CCL_Term Work_Submission Report	Today	Assigned
CCL_PPT_for Preparation	No due date	Assigned
CCL_Laboratory_Exit Survey @ 1	Yesterday	Turned in
Honeywell Or Salesforce Badges certificates 📎 1	Yesterday	Turned in Done late
CCL Mini Project_Report @ 1	Yesterday	5/5
CCL Mini Project_PPT @ 2	Apr 9	5/5
CCL_Exp_No_8_Fog Computing_A Case Study @ 1	Mar 26	10/10
CCL_Quiz 2_Response @ 1	Feb 26	Turned in
CCL_Exp_No_7_IAM @ 1	Mar 18	10/10
CCL_Exp_No_6_Deploy Website on commercial... @ 1	Mar 11	10/10
CCL_Experiment_No_5_Implement PaaS using ... @ 1	Feb 25	10/10
CCL_Assignment_No_2 📎 1 @ 1	Mar 30	10/10
CCL_Assignment No 1 @ 1	Feb 28	10/10
CCL_Exp_No_4_S3 Service @ 1	Feb 19	10/10
CCL_Quiz 1_Chapter 1_Introduction to CCL @ 1	Feb 7	Turned in
CCL_Exp_No_3_IaaS Using AWS EC2 @ 1	Feb 7	10/10
CCL_Exp_No_2B_Virtualization using Virtu... 📎 2 @ 1	Jan 29	10/10
CCL_Exp_No_2A_Virtualization using VM... 📎 3 @ 1	Jan 22	10/10
CCL_Exp_No_1_NIST Model of Cloud @ 1	Jan 16	10/10