

SCHOOL OF ENGINEERING AND TECHNOLOGY

Record of Applied and Action Learning (Programming Practice)

Subject Name:		
Subject Code:		
Semester:		
Semester:		

Name:	
Registration No.:	
Program/Branch:	
Specialization:	
Academic Year: enturion	
Campus:	



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT ODISHA

Certificate

This is to certify that Mr./Ms	having
Registration No of	Semester,
Program,	
School, Campus has comple	eted
number of experiments in	Applied and Action
Learning Laboratory and fulfils the	course
requirements.	

 $Signature\ of\ the\ HoD/Dean$

Signature of the Faculty

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SI. No.	Date	Name of the Experiment	Page No.	Remark	Faculty Signature

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School:	Campus:
Academic Year: Subject Name:	Subject Code:
Semester: Program: Branch	ı: Specialization:
Date: Applied and Action	n Learning

(Learning by Doing and Discovery)

Name of the Experiement: Installation and Practice over Non sql Database

* Coding Phase: Pseudo Code / Flow Chart / Algorithm

About the NoSql database-:

databases are a type of database that provide flexible and scalable ways to store and manage data, differing from traditional relational databases (RDBMS). They are designed to handle large volumes of unstructured, semi-structured, or structured data and are optimized for high availability, horizontal scaling, and fast read/write operations.

now a days we are using lots of the NoSql database but here we are going to perform the all operation over the MongoDB-:

Installation of the MongoDB

THESE ARE THE FOLLOWING STEPS ON WHICH THE MONGOBD WILL BE INSTALLED

Download & Install MongoDB on Windows

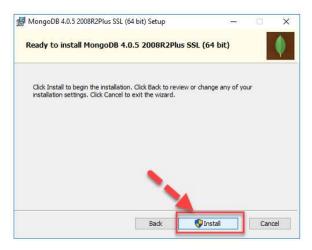
Step 1) Go to https://www.mongodb.com/try/download/community and Download MongoDB Community Server. We will install the 64-bit version for Windows.



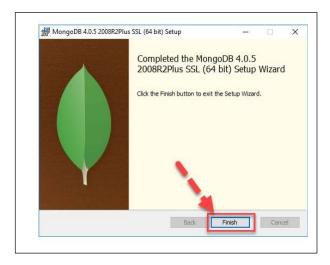
Step 2) Once download is complete open the msi file. Click Next in the start up screen



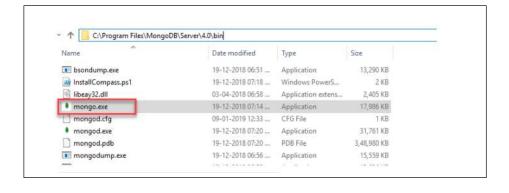
Step 3) Click on the Install button to start the installation.



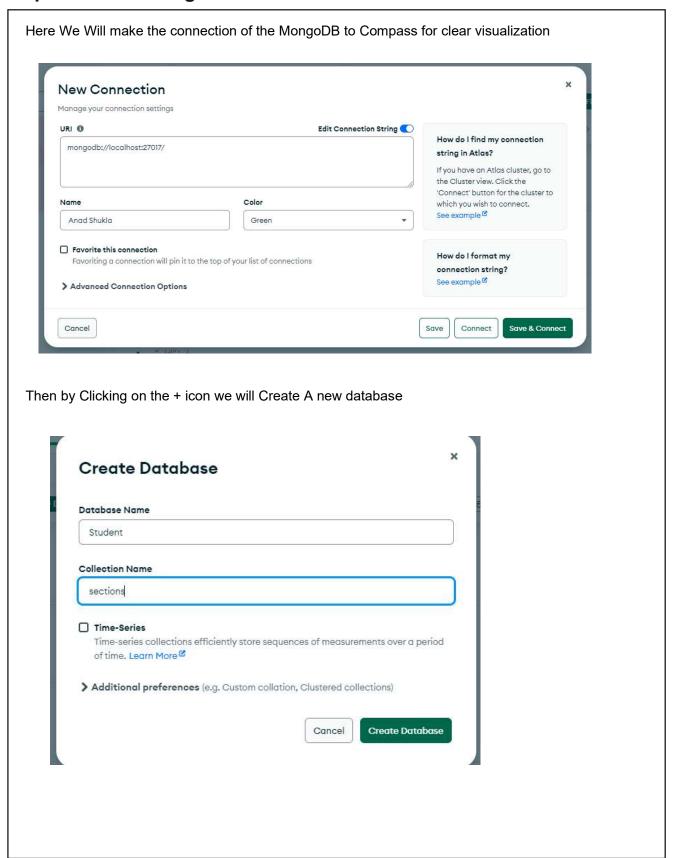
Step 4) Click on the Finish button to complete the installation



Step 5) Go to "C:\Program Files\MongoDB\Server\4.0\bin" and double click on mongo.exe Alternatively, you can also click on the MongoDB desktop item



* Operation in MongoDB





By This Process we will Insert tha Data in MongoDB

* Implementation Phase: Final Output (no error)

Study of MongoDB and Implementation of CRUD Operations *Introduction to MongoDB:*

MongoDB is a NoSQL database that stores data in a flexible, JSON-like format called **documents**. It is widely used for handling large amounts of data efficiently.

Installation of MongoDB:

- 1. Download MongoDB from the official website.
- 2. Install it and start the MongoDB server.
- 3. Use the MongoDB shell (mongosh) or GUI tools like Compass to interact with the database.

CRUD Operations in MongoDB:

- 1. Create (Insert Data)
 - o Used to add new records (documents) in a collection.

db.students.insertOne({ name: "Anand Shukla", age: 20, course: "CSE" });

1. Read (Retrieve Data)

o Used to fetch data from the database.

```
js
CopyEdit
db.students.find();
```

2. Update (Modify Data)

o Used to change existing data in the database.

```
js
CopyEdit
db.students.updateOne({ name: "anand " }, { $set: { age: 23 } });
```

3. Delete (Remove Data)

o Used to delete records from the database.

```
js
CopyEdit
db.students.deleteOne({ name: "anad" });
```

Conclusion:

MongoDB is a powerful NoSQL database that provides fast and flexible data storage. CRUD operations allow us to insert, retrieve, update, and delete data easily.

ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/	10		
Practical Simulation/ Programming			
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	50		

Signature of the Student:

Name:

Regn. No.:

Page No.....

ASSESSMENT

Experiment	Full Mark	Marks Obtained
Experiment - 1	50	
Experiment - 2	50	
Experiment - 3	50	
Experiment - 4	50	
Experiment - 5	50	
Experiment - 6	50	
Experiment - 7	50	
Experiment - 8	50	
Experiment - 9	50	
Experiment - 10	50	
Experiment - 11	50	

Experiment	Full Mark	Marks Obtained
Experiment - 12	50	
Experiment - 13	50	
Experiment - 14	50	
Experiment - 15	50	
Experiment - 16	50	
Experiment - 17	50	
Experiment - 18	50	
Experiment - 19	50	
Experiment - 20	50	
Average Total	50	

Date: Signature of a	
LEARNING OUTCOMES:	
How the Applied and Action L Solving, Idea Generation and	earning encourages Critical Thinking, Problem Skill Development etc.?
How the Applied and Action Lo Reflection and Decision Makin	earning encourages Leadership, Team Work, ng Capability etc.?

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* One sheet per learning record to be used

COURSE OUTCOMES (COs) ATTAINMENT

	Expected Course Outcomes (COs): (Refer to COs Statement in the Syllabus)
	Course Outcomes (COs) Attained:
	How would you rate your learning of the subject based on the specified COs?
	1 2 3 4 5 6 7 8 9 10 HIGH
>	Learning Gap (If any):
>	Books/Manuals Referred:
_	
	Signature of the Student Suggestions / Recommendations: (by the Course Faculty)
Da	te: Signature of the Faculty



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA

CAMPUSES:

Paralakhemundi Campus Village Alluri Nagar P.O. – R Sitapur, Via- Uppalada Paralakhemundi, Dist.- Gajapati Odisha, India. PIN– 761211 Bhubaneswar Campus Ramchandrapur P.O. – Jatni, Bhubaneswar Dist.- Khurda, Odisha, India, PIN– 752050 Balangir Campus Behind BSNL Office IDCO land, Rajib Nagar Dist.- Balangir, Odisha India, PIN-767001 Rayagada Campus IDCO Industrial Area Pitamahal, Rayagada Dist.-Rayagada, Odisha India, PIN-765001

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