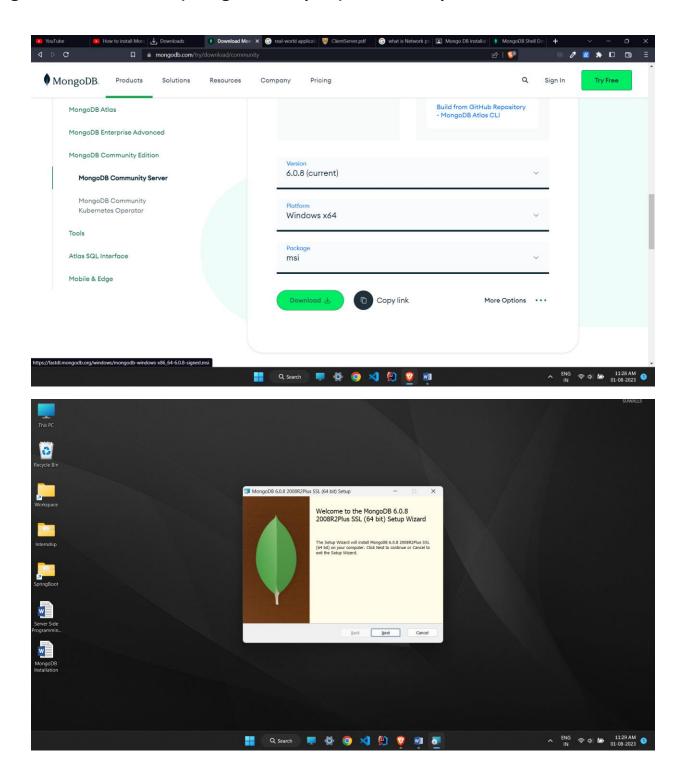
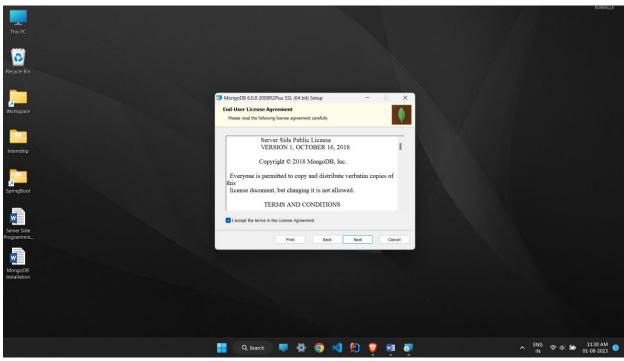
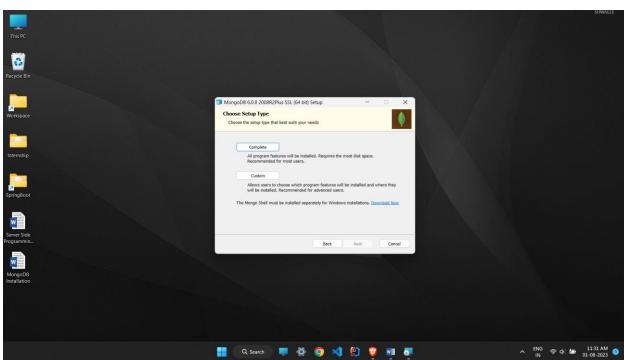
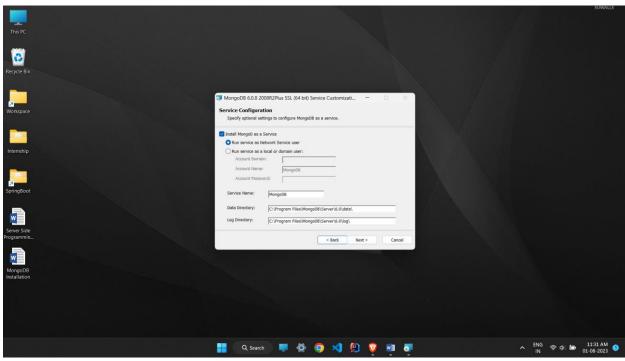
# Mongo DB installation process:

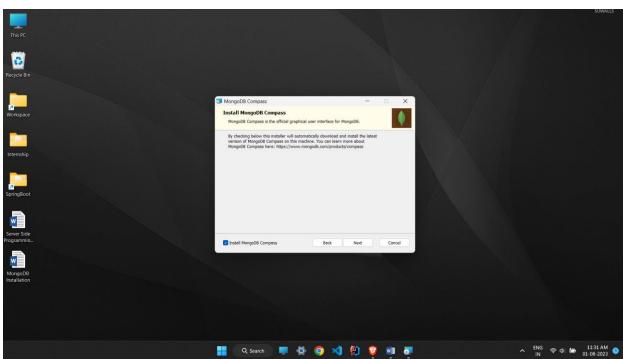
Mongo DB server and GUI (Mongo DB compass) installation process:

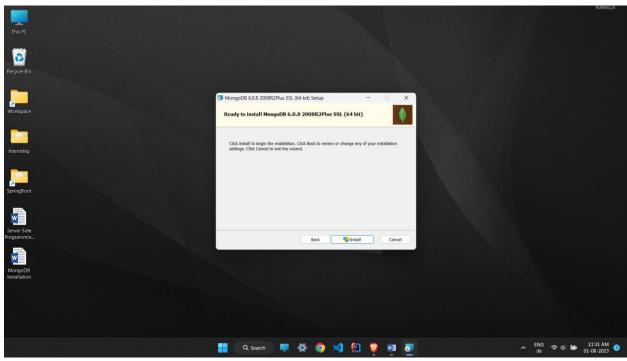


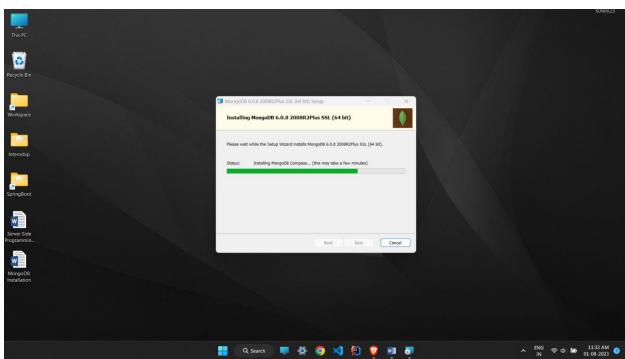


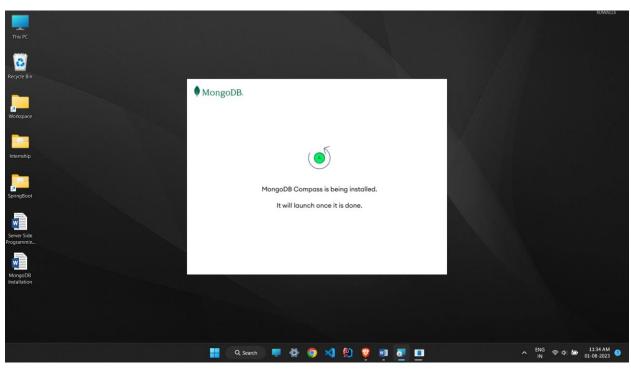


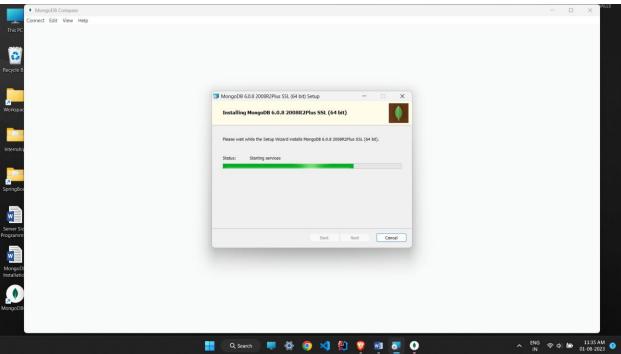


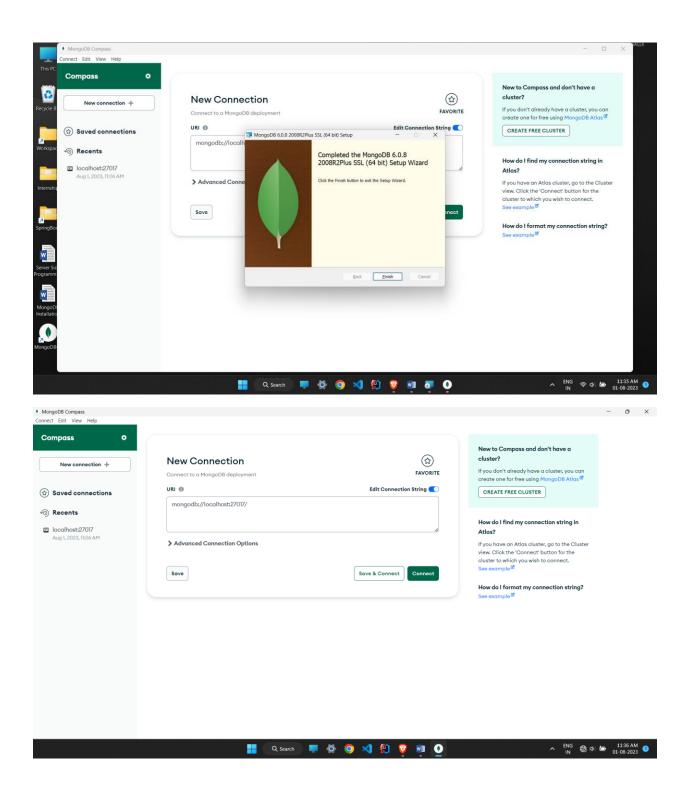




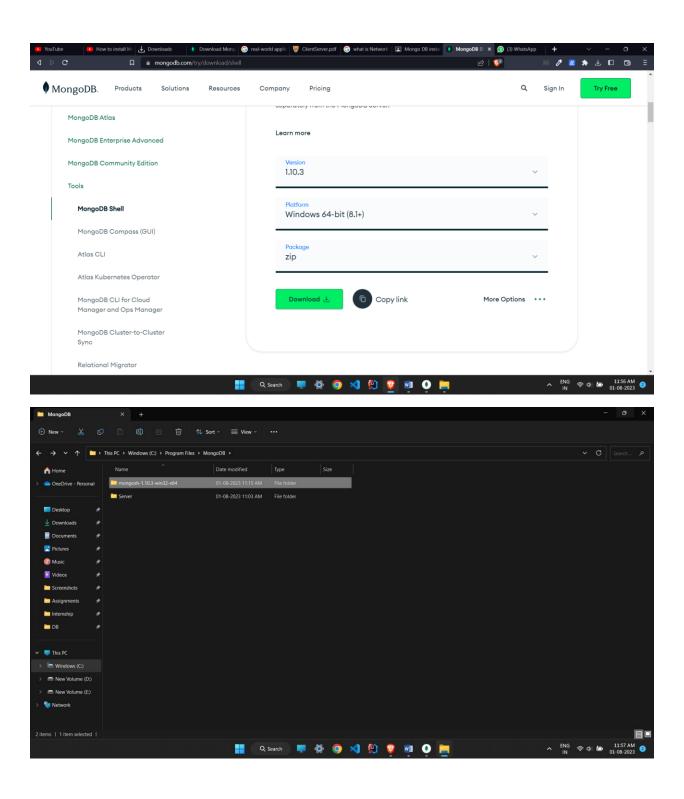


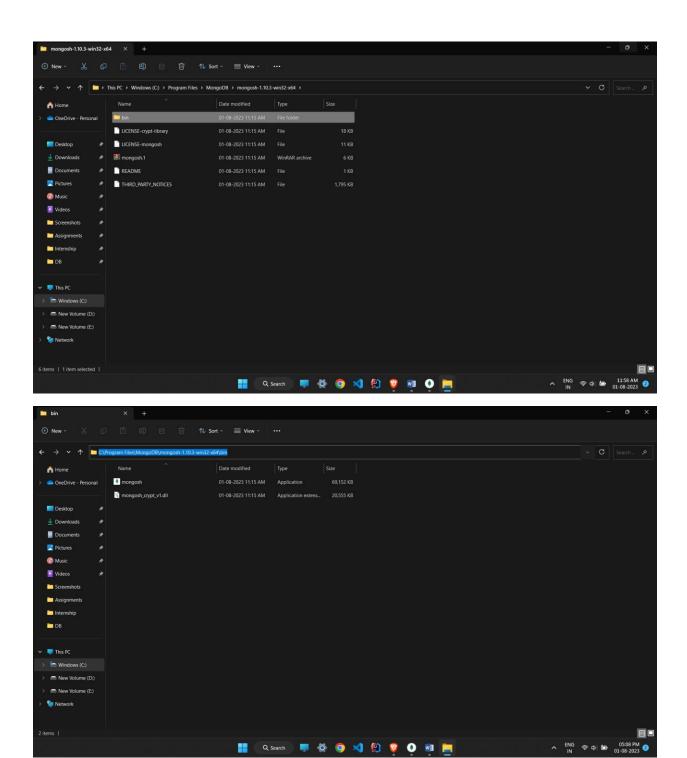


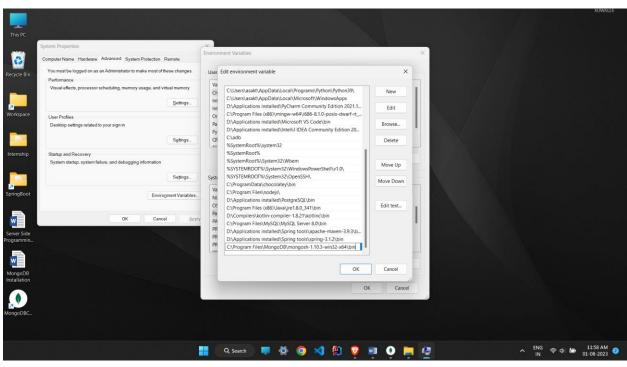


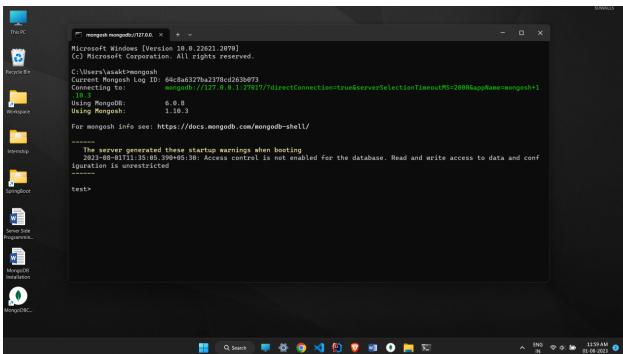


# Mongo DB shell Installation process:









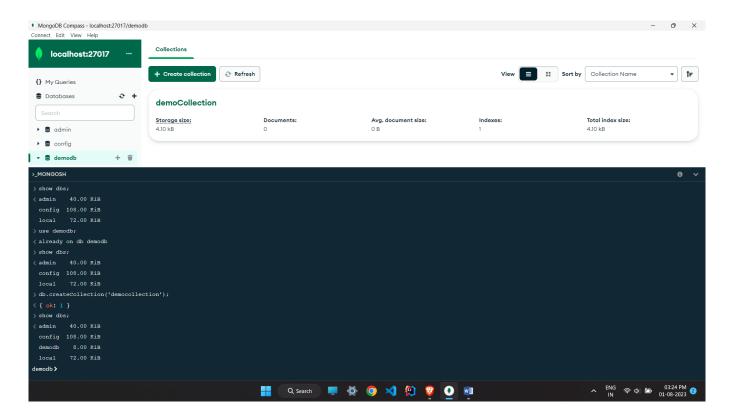
# Working with Mongo DB:

# **Creating my first DB:**

- I have created a new database called **demodb** by using the **use** keyword.
- I check the list of present databases using the **show dbs** command.

#### **Creating by first collection:**

- Then, I created a collection inside that db with a name democollection by using db.createCollection('<collection\_name>').
- In mongo DB, it accepts a database only if that database have at least one collection or a document.
- I check the list of present collections inside my demodb using the show collections command.

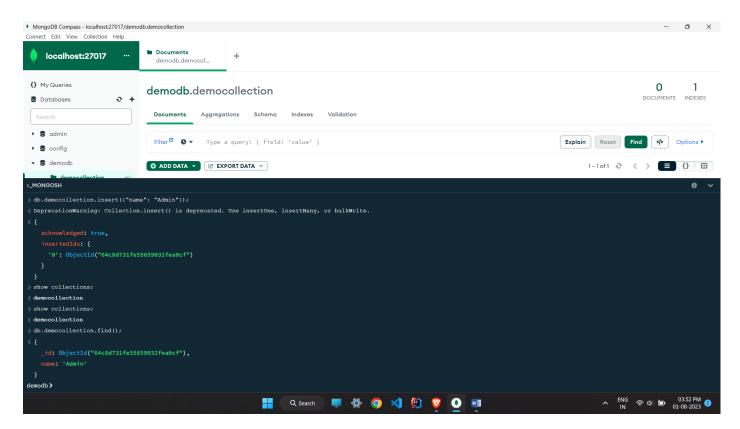


## Inserting a document to a collection in (key: value) pairs:

I inserted a key: value pair document to my collection called
 democollection using db.<collection\_name>.insert(<key:value>).

# Retrieving document from a collection:

 I retrieved all document that, i have inserted into my collection by using the command db.<collection\_name>.find().



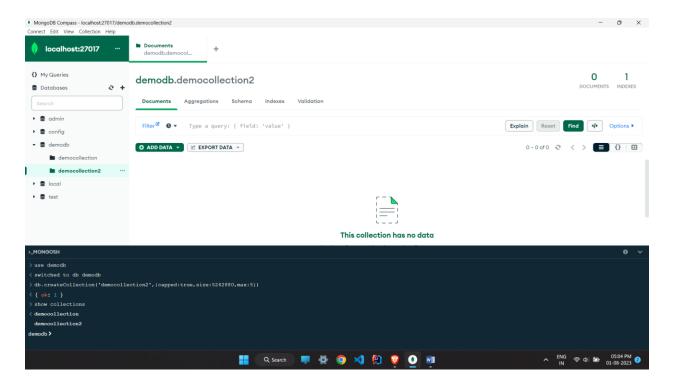
# Creating another collection with additional conditions:

 I have created an another collection called democollection2 with additional conditions by using

db.createCollection('<collection name>','{capped:true,size:5242880,max:5)

#### • Where:

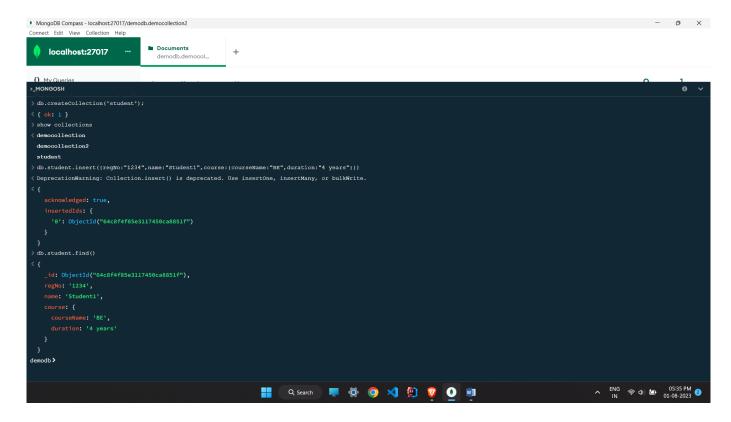
- o capped When capped is true we can specify the size and max fields.
- size It indicates the maximum size the collection can store (Total size of all documents inside that collection must be less than or equal to the size mentioned).
- max It indicates the maximum number of documents the collection can store(Total size of all documents inside that collection must be less than or equal to the size mentioned).



**Note:** Mongo DB auto generates an **unique (\_id)** to all the inserted documents, we can override that (**\_id**) by simply mentioning our own **\_id** value to the document while inserting it.

## **Inserting an imbedded document:**

- Here I inserted an imbedded document by using
   db.<collection\_name>.insert(<inserting\_document>)
- Here in the inserted document **course** is an imbedded document.



## **Updating a document in mongo DB:**

- I updated a document in Mongo DB by using the update() method.
- There are many different update() methods available they are,
  - db.collection.updateOne()
  - o db.collection.updateTwo()

- updateOne() method updates only the first matching document which satisfies the given query or condition.
- updateMany() method updates the all matching documents which satisfies the given query or condition.

```
_40NS0811
) db.student.find()
   _id: ObjectId("64c93cee6d04cc5899f0e3b8"),
   regNo: '101',
   name: 'Studentl',
   course: {
     courseName: 'BE',
     duration: '4 years'
   _id: ObjectId("64c93cf86d04cc5899f0e3b9"),
db.student.update({regNo: '101'},{$set: {name: 'firstStudent'}})
( DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
db.student.find()
   _id: ObjectId("64c93cee6d04cc5899f0e3b8"),
    _id: ObjectId("64c93cf86d04cc5899f0e3b9"),
   name: 'Student2',
     courseName: 'BE',
demodb >
```

# **Deleting a document in mongo DB:**

- In Mongo DB, we can **delete** a document by using the following commands,
  - db.collection.deleteOne()
  - db.collection.deleteMany()
- By using **deleteOne()** method, we can delete the first occurring document which satisfies the given condition.
- By using **deleteMany()** method, we can delete all the documents which satisfies the given condition.

```
>_MONGOSH
> db.student.find()
   _id: ObjectId("64c8f4f85e3117450ca8851f"),
   regNo: '1234',
   name: 'Student1',
     duration: '4 years'
   _id: ObjectId("64c9310c6d04cc5899f0e3b5"),
   regNo: '12345',
   name: 'Student2',
   course: {
     courseName: 'BE',
     duration: '4 years'
> db.student.deleteOne({regNo:"1234"})
   acknowledged: true,
> db.student.find()
   _id: ObjectId("64c9310c6d04cc5899f0e3b5"),
   regNo: '12345',
   course: {
     courseName: 'BE',
demodb>
```