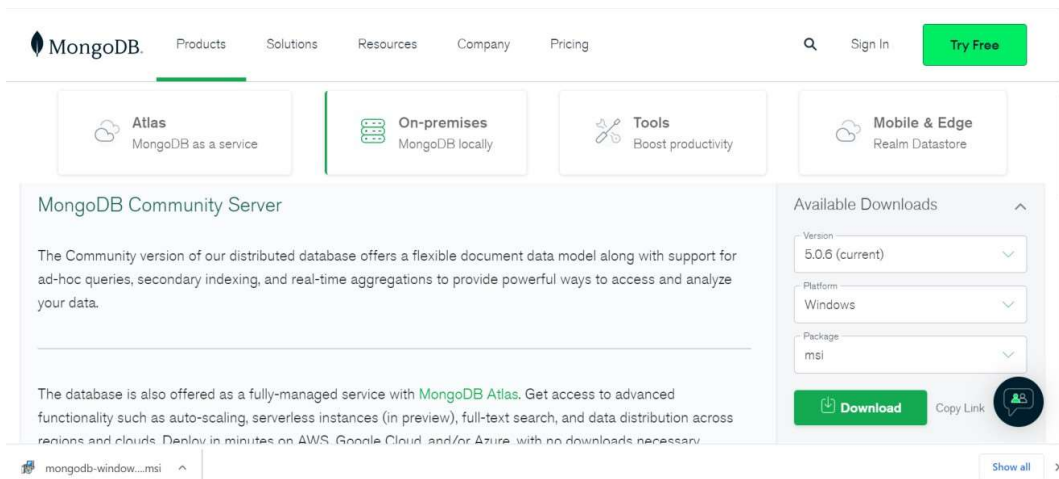


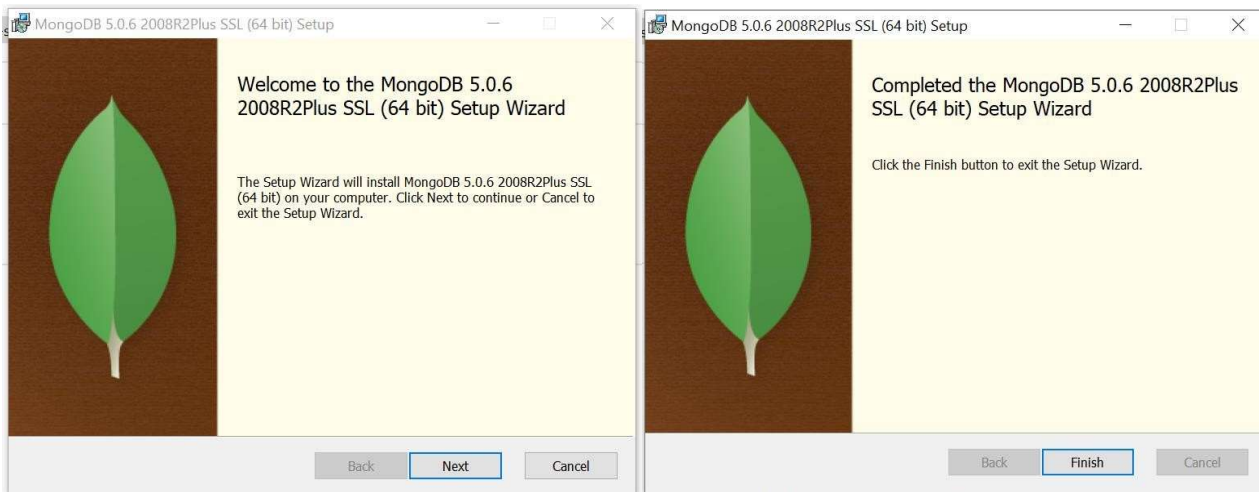
## Mini Project

**Aim:** Implementation of NOSQL database using mongodb.

**Step1:** We need to download mongodb from <https://www.mongodb.com/> website.

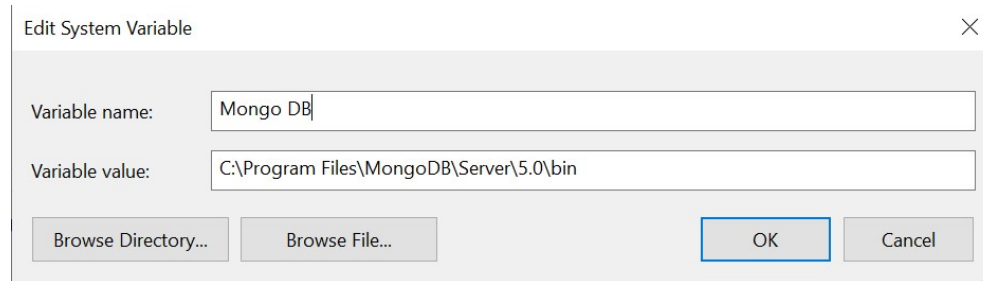


**Step2:** After successfully downloading mongodb we need to install it in our system.



**Step3:** After successfully installation of the mongodb we need to set path variable of the bin file of mongodb in environment in system

e.g. "C:\Program Files\MongoDB\Server\5.0\bin"



**Step4:** After setting path variable we can easily use mongo command in cmd and run mongod shell.

```
C:\Program Files\MongoDB\Server\5.0\bin\mongo.exe
MongoDB server version: 5.0.6
=====
Warning: the "mongo" shell has been superseded by "mongosh",
which delivers improved usability and compatibility. The "mongo" shell has been deprecated and will be removed in
an upcoming release.
For installation instructions, see
https://docs.mongodb.com/mongodb-shell/install/
=====
Welcome to the MongoDB shell.
For interactive help, type "help".
For more comprehensive documentation, see
https://docs.mongodb.com/
Questions? Try the MongoDB Developer Community Forums
https://community.mongodb.com
---
The server generated these startup warnings when booting:
2022-03-30T21:57:03.614+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
---
---
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
```

**Step5:** show dbs command shows the database available in mongodb.

```
C:\Program Files\MongoDB\Server\5.0\bin\mongo.exe
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
> show dbs
admin 0.000GB
config 0.000GB
local 0.000GB
> use bibdb
switched to db bibdb
>
```

**Step6:** To create our own database in mongodb we need to write

**“use databasename”**

e.g. use bibdb (here bibdb is the name of data base)

```
> use bibdb
switched to db bibdb
```

**Step7:** To create collection in database we need to write the code below

**Code:** db.student.insert({"studname":"ram","address":"bandra","class":"msc cs"})

WriteResult({ "nInserted" : 1 })

**Output:**

```
> db.student.insert({"studname":"ram", "address":"bandra", "class":"msc cs"})
WriteResult({ "nInserted" : 1 })
>
```

**Step8:** To view our collection we need command **“show collections”** and

to display record of collection we need to write command

**“db.student.find()”** or **“db.student.find().pretty()”**

```
> show collections
student
```

```
> db.student.find()
{ "_id" : ObjectId("624486a3662a9f8946b9ecdc"), "studname" : "ram", "address" : "bandra", "class" : "msc cs" }
> db.student.find().pretty()
{
  "_id" : ObjectId("624486a3662a9f8946b9ecdc"),
  "studname" : "ram",
  "address" : "bandra",
  "class" : "msc cs"
}
>
```