

ASJID TAHIR

19p-0085

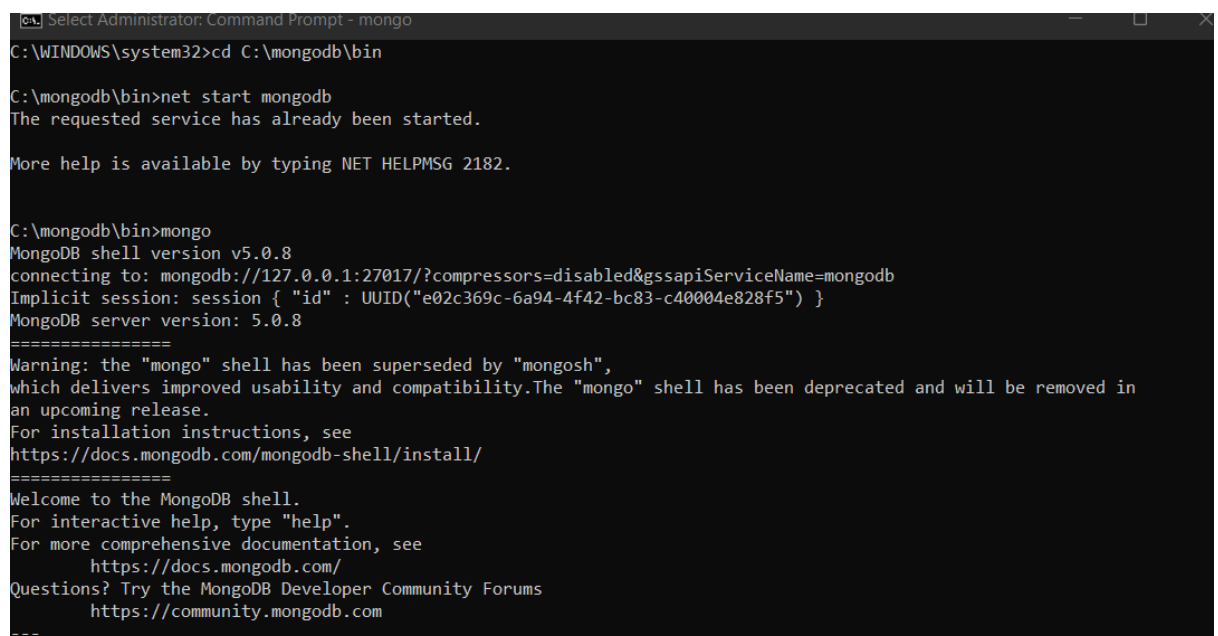
DATABASE SYSTEMS LAB

LAB # 11:

- MongoDB:

Start the setup of mongodb by following commands:

- C:\mongodb\bin.
- net start mongodb.



```

C:\WINDOWS\system32>cd C:\mongodb\bin

C:\mongodb\bin>net start mongodb
The requested service has already been started.

More help is available by typing NET HELPMSG 2182.

C:\mongodb\bin>mongo
MongoDB shell version v5.0.8
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongod
Implicit session: session { "id" : UUID("e02c369c-6a94-4f42-bc83-c40004e828f5") }
MongoDB server version: 5.0.8
=====
Warning: the "mongo" shell has been superseded by "mongosh",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
---
```

LAB TASKS:

1) Create Database name with your Roll no:

```
20001 070000
> use p190085_asjdtahir
switched to db p190085_asjdtahir
"test" : 6, "name" : "Asjid"
```

2) Create a Collection:

```
switched to db p190085_asjdtahir
> db.createCollection("users");
{ "ok" : 1 }
> show collections;
users
```

3) Insert record:

```
users
> db.user.insert({username: "Asjid",
... password:
... "ajji1234",
... email:"p190085@nu.edu.pk",
... DOB:"2001-10-09",
... Address:"Lahore",
... Contact:"03354178360"})
WriteResult({ "nInserted" : 1 })
> db.user.insert({username: "Ahmed",
... password:
... "asdf1234",
... email:"asjdtahir06@gmail.com",
... DOB:"2001-09-09",
... Address:"Lahore",
... Contact:"0333-4281122"})
WriteResult({ "nInserted" : 1 })
> db.user.insert({username:"Tahir",
... password:
... "aeiou123",
... email:
... "omi123#gmail.com",
... DOB:
... "2002-07-08",
... Address:
... "Lahore",
... Contact:
... "0307-4281122"})
WriteResult({ "nInserted" : 1 })
>
```

```

> db.user.insert({username:"Nouman",
... password:"12345",
... email:"abc@gmail.com",
... DOB:"1998-07-07",
... Address:"Peshawar",
... Contact:"83277328"})
WriteResult({ "nInserted" : 1 })
> db.user.insert({username:"Arham",
... password:"1345",
... email:
... "xyz@nu.edu.pk",
... DOB:"1998-07-09",
... Address:"Islamabad",
... Contact:"87236"})
WriteResult({ "nInserted" : 1 })
>

```

4) Show all users:

```

WriteResult({ "nInserted" : 1 })
> db.user.find().pretty()
{
  "_id" : ObjectId("628288e807dfee97fa5dea2a"),
  "username" : "Asjid",
  "password" : "ajji1234",
  "email" : "p190085@nu.edu.pk",
  "DOB" : "2001-10-09",
  "Address" : "Lahore",
  "Contact" : "03354178360"
}
{
  "_id" : ObjectId("62828a3707dfee97fa5dea2b"),
  "username" : "Ahmed",
  "password" : "asdf1234",
  "email" : "asjiddtahir06@gmail.com",
  "DOB" : "2001-09-09",
  "Address" : "Lahore",
  "Contact" : "0333-4281122"
}
{
  "_id" : ObjectId("62828b3e07dfee97fa5dea2c"),
  "username" : "Tahir",
  "password" : "aeiou123",
  "email" : "omi123@gmail.com",
  "DOB" : "2002-07-08",
  "Address" : "Lahore",
  "Contact" : "0307-4281122"
}
>

```

5) Show users lived in Lahore:

```

}
> db.user.find({Address:"Lahore"})
{ "_id" : ObjectId("628288e807dfee97fa5dea2a"), "username" : "Asjid", "password" : "ajji1234", "email" : "p190085@nu.edu.pk", "DOB" : "2001-10-09", "Address" : "Lahore", "Contact" : "03354178360" }
{ "_id" : ObjectId("62828a3707dfee97fa5dea2b"), "username" : "Ahmed", "password" : "asdf1234", "email" : "asjiddtahir06@gmail.com", "DOB" : "2001-09-09", "Address" : "Lahore", "Contact" : "0333-4281122" }
{ "_id" : ObjectId("62828b3e07dfee97fa5dea2c"), "username" : "Tahir", "password" : "aeiou123", "email" : "omi123@gmail.com", "DOB" : "2002-07-08", "Address" : "Lahore", "Contact" : "0307-4281122" }
>

```

6) Show users lived in Peshawar:

```
WriteResult({ "nInserted" : 1 })
> db.user.find({Address:"Peshawar"})
{ "_id" : ObjectId("62828f6b07dfee97fa5dea2d"), "username" : "Nouman", "password" : "12345", "email" : "abc@gmail.com",
"DOB" : "1998-07-07", "Address" : "Peshawar", "Contact" : "83277328" }
>
```

7) Show users lived in Peshawar or Islamabad:

```
db.user.find({Address: {$in:["Peshawar","Karachi"]}})
{ "_id" : ObjectId("6281540c16ff8996ce46ed64"), "username" : "Ali", "password" : "def321", "email" :
"li123@yahoo.com", "DOB" : "1996-03-04", "Address" : "Peshawar", "Contact" : "+923332233322" }
{ "_id" : ObjectId("6281555516ff8996ce46ed65"), "username" : "Haroon", "password" : "fast123", "email"
: "haroon@gmail.com", "DOB" : "-", "Address" : "Karachi", "Contact" : "-" }
```