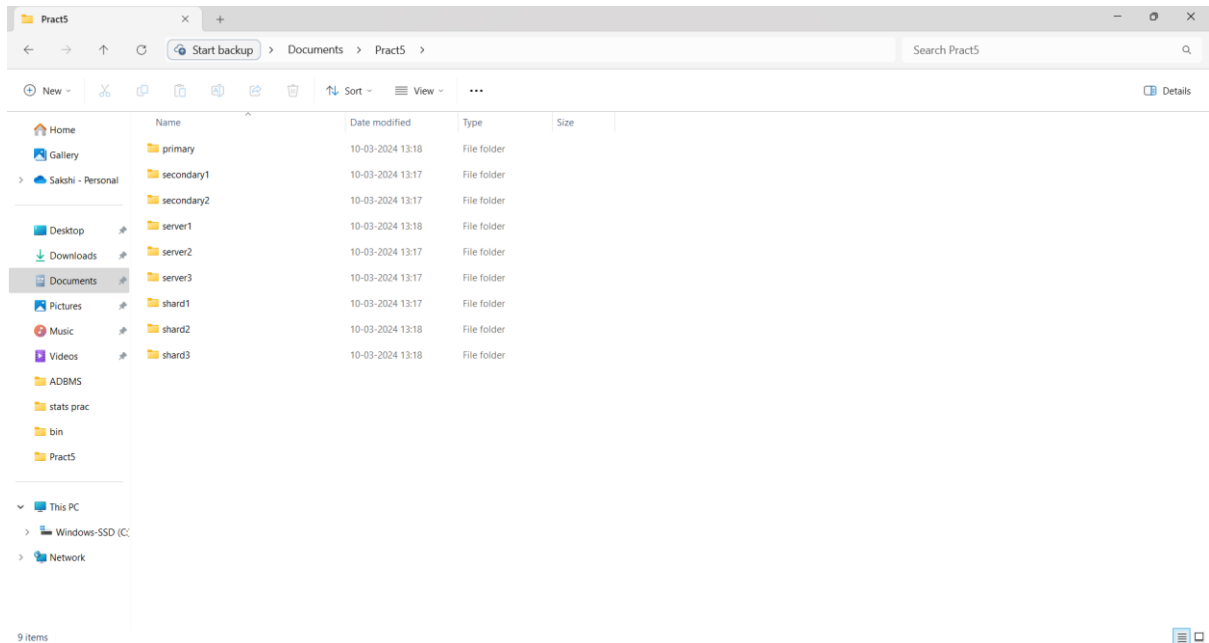


ADBMS Practical 5

create a folder and in that folder make 9 files/folders with name(primary, secondary1, secondary2, server1, server2, server3, shard1, shard2, shard3) and run the commands mentioned below



Replication

open cmd and run commands

cd (path in which you created your folder)

e.g(cd C:\Users\SAKSHI\Documents\Pract5)

start mongod --port=50000 --replSet="Server1" --dbpath="(folder path)/primary"

e.g(start mongod --port=50000 --replSet="Server1" --
dbpath="C:\Users\SAKSHI\Documents\Pract5\primary"
)

start mongod --port=50001 --replSet="Server1" --dbpath="(folder path)/secondary1"

start mongod --port=50002 --replSet="Server1" --dbpath="(folder path)/secondary2"

```
Command Prompt
Microsoft Windows [Version 10.0.22621.3155]
(c) Microsoft Corporation. All rights reserved.

C:\Users\SAKSHI>cd "C:\Users\SAKSHI\Documents\Pract5"

C:\Users\SAKSHI\Documents\Pract5>start mongod --port=50000 --replSet="Server1" --dbpath="C:\Users\SAKSHI\Documents\Pract5\primary"

C:\Users\SAKSHI\Documents\Pract5>start mongod --port=50001 --replSet="Server1" --dbpath="C:\Users\SAKSHI\Documents\Pract5\secondary1"

C:\Users\SAKSHI\Documents\Pract5>start mongod --port=50002 --replSet="Server1" --dbpath="C:\Users\SAKSHI\Documents\Pract5\secondary2"

C:\Users\SAKSHI\Documents\Pract5>|
```

open cmd and run

mongosh --port=50000

```
mongosh mongodb://127.0.0.1:50000
Microsoft Windows [Version 10.0.22621.3155]
(c) Microsoft Corporation. All rights reserved.

C:\Users\SAKSHI>mongosh --port=50000
Current Mongosh Log ID: 65ed6139709f88e959a26926
Connecting to:      mongodb://127.0.0.1:50000/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.4
Using MongoDB:      7.0.5
Using Mongosh:       2.1.4
mongosh 2.1.5 is available for download: https://www.mongodb.com/try/download/shell

For mongosh info see: https://docs.mongodb.com/mongodbs-shell/

-----
The server generated these startup warnings when booting
2024-03-10T12:56:52.678+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
2024-03-10T12:56:52.679+05:30: This server is bound to localhost. Remote systems will be unable to connect to this server. Start the server with --bind_ip <address> to specify which IP addresses it should serve responses from, or with --bind_ip_all to bind to all interfaces. If this behavior is desired, start the server with --bind_ip 127.0.0.1 to disable this warning
-----

test> rs.initiate({
...   _id:"Server1",
...   members:[
...     { _id:0, host:"localhost:50000"},
...     { _id:1, host:"localhost:50001"},
...     { _id:2, host:"localhost:50002"}
...   ]
... })
```

Config Server

open cmd and run commands

cd (path in which you created your folder)

```
mongod --configsvr --port=1030 --replSet="Server1" --dbpath="(folder path)/server1"
```

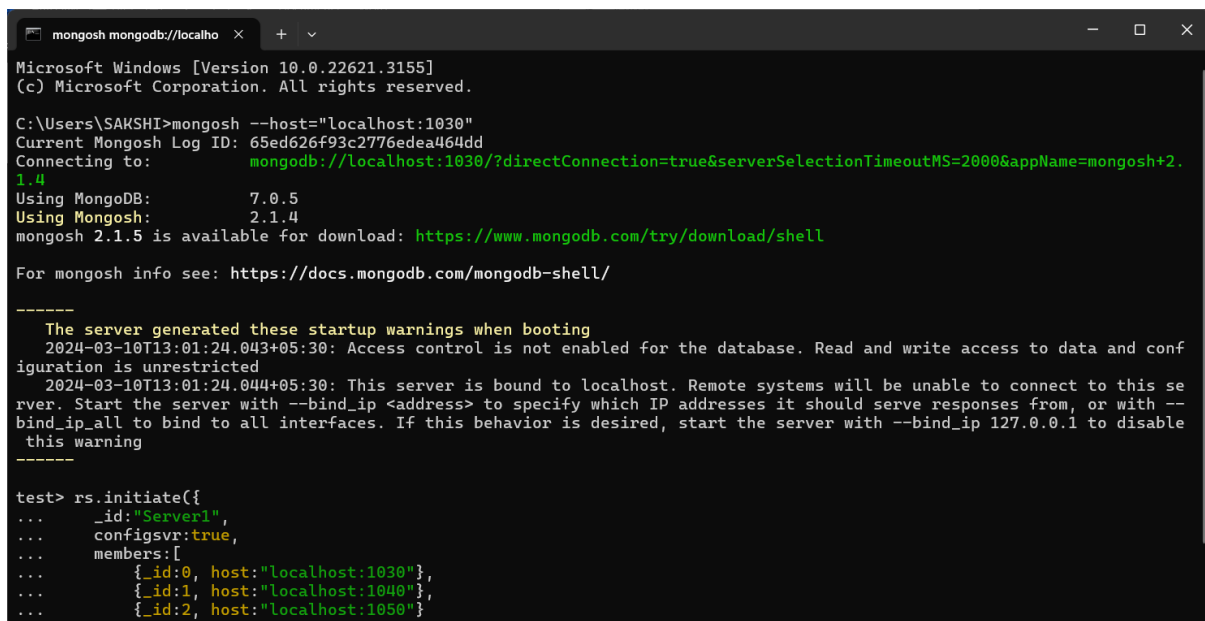
```
mongod --configsvr --port=1040 --replSet="Server1" --dbpath="(folder path)/server2"
```

```
mongod --configsvr --port=1050 --replSet="Server1" --dbpath="(folder path)/server3"
```

open cmd and run

```
mongosh --host="localhost:1030"
```

```
rs.initiate({
  _id:"Server1",
  configsvr:true,
  members:[
    { _id:0, host:"localhost:1030"},
    { _id:1, host:"localhost:1040"},
    { _id:2, host:"localhost:1050"}
  ]
})
```



```
mongosh mongodb://localhost:1030
Microsoft Windows [Version 10.0.22621.3155]
(c) Microsoft Corporation. All rights reserved.

C:\Users\SAKSHI>mongosh --host="localhost:1030"
Current Mongosh Log ID: 65ed626f93c2776edea464dd
Connecting to:  mongodb://localhost:1030/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.4
Using MongoDB: 7.0.5
Using Mongosh: 2.1.4
mongosh 2.1.5 is available for download: https://www.mongodb.com/try/download/shell

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

-----
The server generated these startup warnings when booting
2024-03-10T13:01:24.043+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
2024-03-10T13:01:24.044+05:30: This server is bound to localhost. Remote systems will be unable to connect to this server. Start the server with --bind_ip <address> to specify which IP addresses it should serve responses from, or with --bind_ip_all to bind to all interfaces. If this behavior is desired, start the server with --bind_ip 127.0.0.1 to disable this warning
-----

test> rs.initiate({
...   _id:"Server1",
...   configsvr:true,
...   members:[
...     { _id:0, host:"localhost:1030"},
...     { _id:1, host:"localhost:1040"},
...     { _id:2, host:"localhost:1050"}
...   ]
... })
```

Shards

open cmd and run commands

cd (path in which you created your folder)

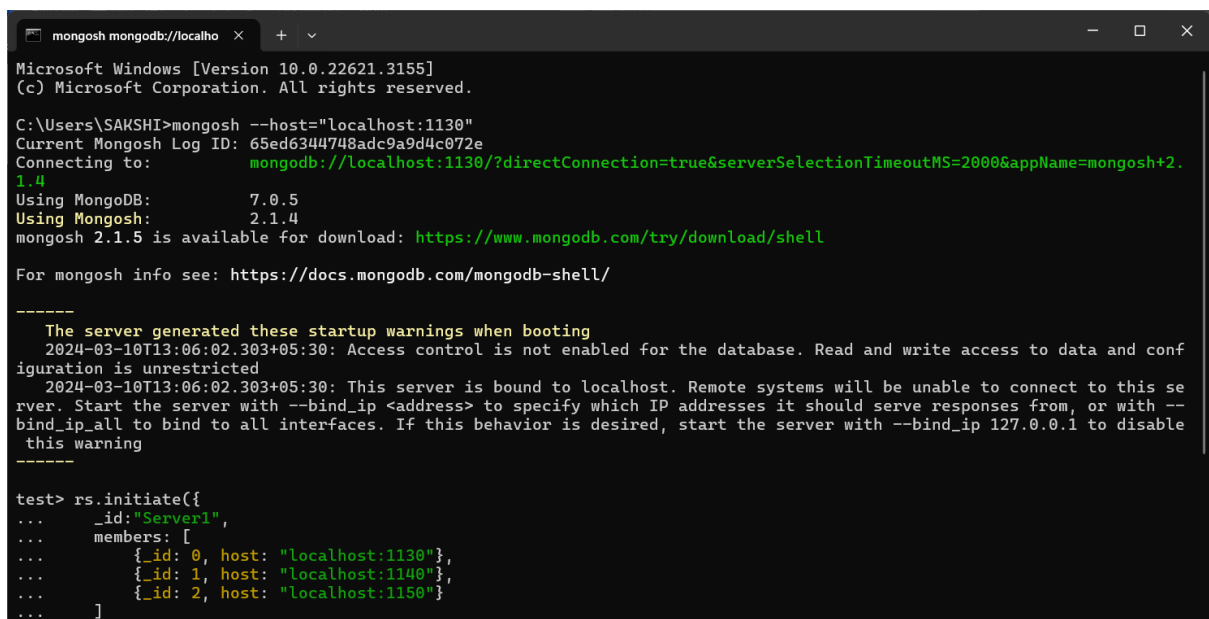
```
mongod --shardsvr --port=1130 --dbpath="(folder path)/shard1" --replSet="Server1"
```

```
mongod --shardsvr --port=1140 --dbpath="(folder path)/shard2" --replSet="Server1"
```

open cmd and run

```
mongosh --host="localhost:1130"
```

```
rs.initiate({
  _id: "Server1",
  members: [
    { _id: 0, host: "localhost:1130" },
    { _id: 1, host: "localhost:1140" },
    { _id: 2, host: "localhost:1150" }
  ]
})
```



```
mongosh mongodb://localho x + v
Microsoft Windows [Version 10.0.22621.3155]
(c) Microsoft Corporation. All rights reserved.

C:\Users\SAKSHI>mongosh --host="localhost:1130"
Current Mongosh Log ID: 65ed6344748adc9a9d4c072e
Connecting to:  mongodb://localhost:1130/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.4
Using MongoDB: 7.0.5
Using Mongosh: 2.1.4
mongosh 2.1.5 is available for download: https://www.mongodb.com/try/download/shell

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

-----
The server generated these startup warnings when booting
2024-03-10T13:06:02.303+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
2024-03-10T13:06:02.303+05:30: This server is bound to localhost. Remote systems will be unable to connect to this server. Start the server with --bind_ip <address> to specify which IP addresses it should serve responses from, or with --bind_ip_all to bind to all interfaces. If this behavior is desired, start the server with --bind_ip 127.0.0.1 to disable this warning
-----

test> rs.initiate({
...   _id: "Server1",
...   members: [
...     { _id: 0, host: "localhost:1130" },
...     { _id: 1, host: "localhost:1140" },
...     { _id: 2, host: "localhost:1150" }
...   ]
... })
```