MongoDB Assignment

1. **Write an Example of JSON**

```
{
    “Name”:  “Mongodb”,
    “Description”: “no sql database”,
    “Type”: “document oriented”,
    “Port”: 27017
},

{
   “Name”:  “Mysql”,
    “Description”: “sql database”,
    “Type”: “Object oriented RDBMS”,
    “Port”: 3306

}
```

2. **Perform CRUD operation**

https://github.com/Samiranghosh07/mongodb/blob/master/training_database_assignment.js

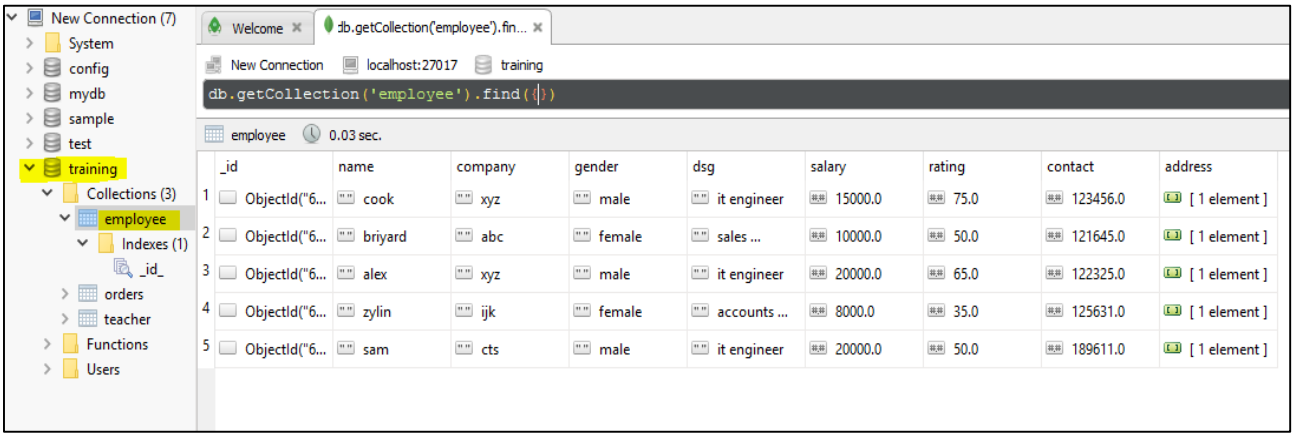
```
use training

show dbs

//========= Table Creation ==================//

db.createCollection("employee")

//========= Insert Bulk Record ===============//

db.employee.insertMany([

    { name:"cook", company:"xyz", gender:"male", dsg:"it engineer", salary:15000, rating:75,
contact:123456, address:[

    {city:"newyork",country:"us",zipcode:123}

    ]},

    { name:"briyard", company:"abc", gender:"female", dsg:"sales executive", salary:10000,
rating:45, contact:121645, address:[

    {city:"lipcon",country:"canada",zipcode:456}

    ]},

    { name:"alex", company:"xyz", gender:"male", dsg:"it engineer", salary:20000, rating:65,
contact:122325, address:[
```

```
    {city:"london",country:"uk",zipcode:333}

    ]},

    { name:"zylin", company:"ijk", gender:"female", dsg:"accounts executive", salary:8000,
rating:35, contact:125631, address:[

    {city:"kapetown",country:"sa",zipcode:256}

    ]},

    { name:"nitin", company:"wipro", gender:"male", dsg:"it engineer", salary:12000, rating:70,
contact:523689, address:[

    {city:"delhi",country:"india",zipcode:912}

    ]},

    { name:"sam", company:"cts", gender:"male", dsg:"it engineer", salary:20000, rating:45,
contact:189611, address:[

    {city:"paris",country:"france",zipcode:444}

    ]},

    { name:"ijol", company:"tcs", gender:"female", dsg:"sales executive", salary:9000, rating:85,
contact:444444, address:[

    {city:"newjurcy",country:"us",zipcode:226}

    ]},

    { name:"hemond", company:"abc", gender:"male", dsg:"civil engineer", salary:21000,
rating:54, contact:772356, address:[

    {city:"sisily",country:"italy",zipcode:555}

    ]},

    { name:"rocky", company:"hcl", gender:"male", dsg:"it engineer", salary:14000, rating:80,
contact:545411, address:[

    {city:"oklahoma",country:"us",zipcode:321}

    ]},

])

//============ Document Identify ==============//
```

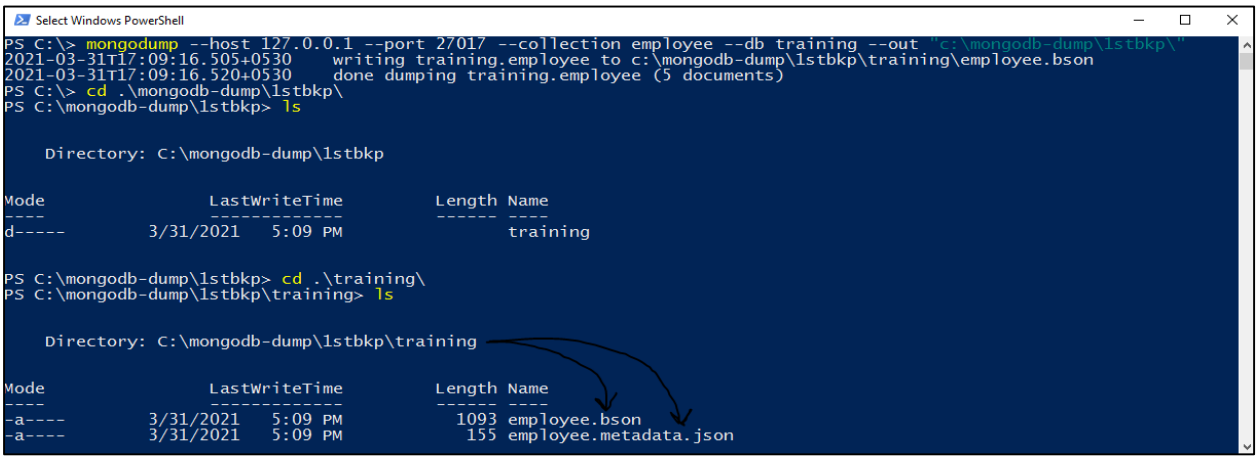
```
db.employee.find().pretty()



//=========== Update Document ==============//

db.employee.updateOne(

    //{name:"cookies"},{$set : {name:"cook"}}
    {rating:45},{$set : {rating:50}}
)


//=========== Delete Document ==============//

db.employee.remove({name:"hemond", company:"abc"})
```

3. Backup and Restore:

I. Start mongodb service ⇒ services.msc ⇒ mongodb service
II. Create folder C:\mongodb-dump\1stbkp
III. Connect database “training” with MongoChef or Robo3T tool.
IV. Open powershell prompt



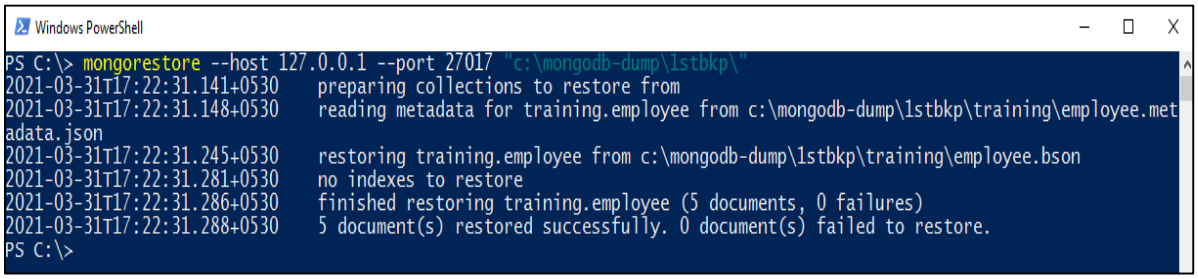
V. c:\> mongodump --host 127.0.0.1 --port 27017 --collection employee --db training --out "C:\mongodb-dump\1stbkp"



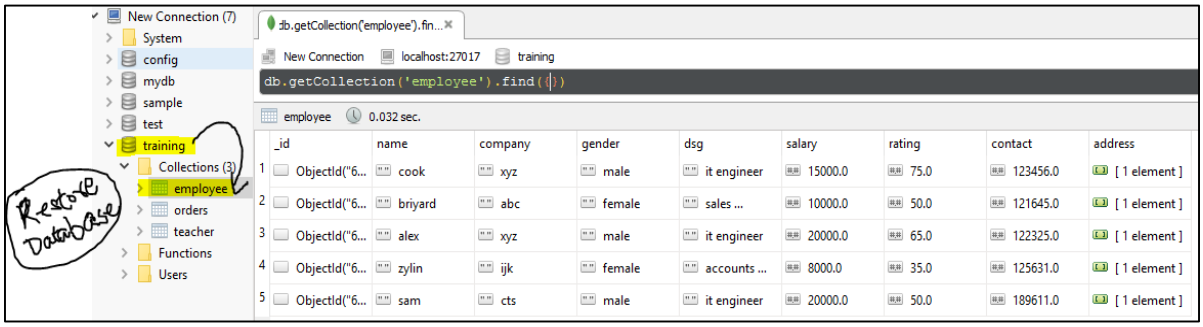
VI. Open mongo shell and drop "employee" collection to restore further

VII. Open powershell prompt and type the below command:

c:\> mongorestore --host 127.0.0.1 --port 27017 "c:\mongodb-dump\1stbkp\"

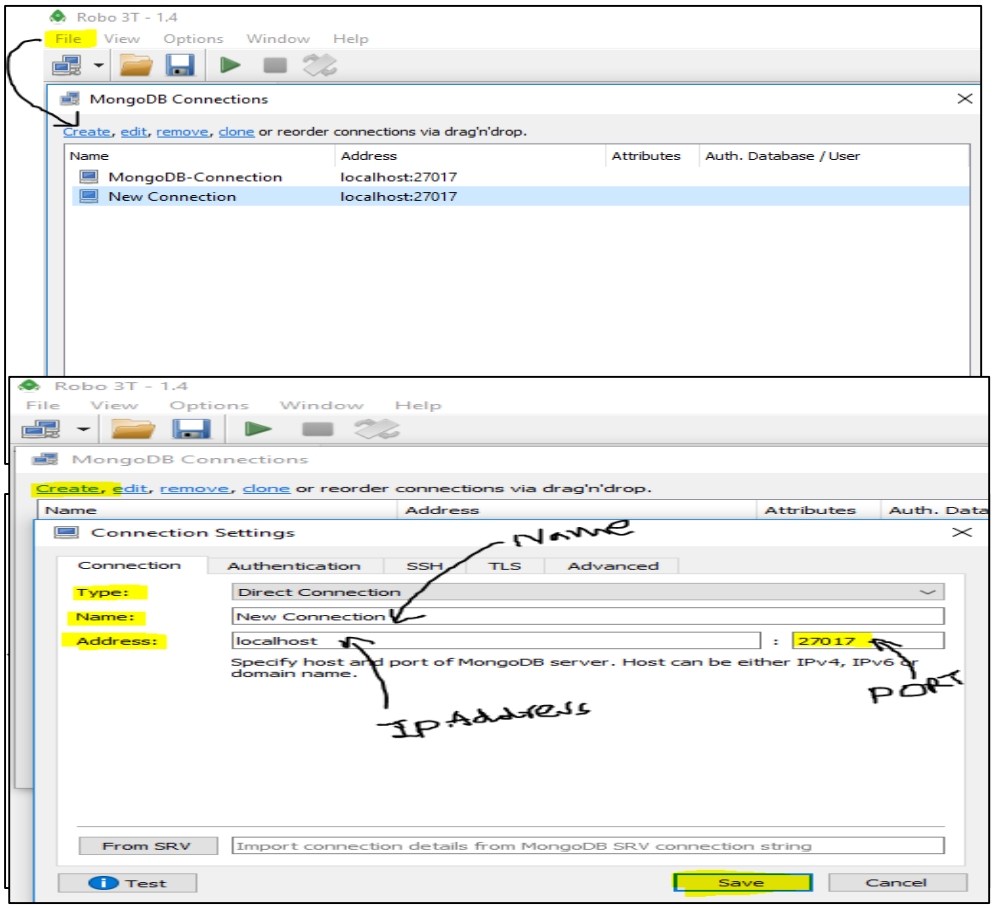


VIII. Open Robo3T tool and “employee” table is restored



4. Mongodb Connect with Robomongo or Robo3T Tool:

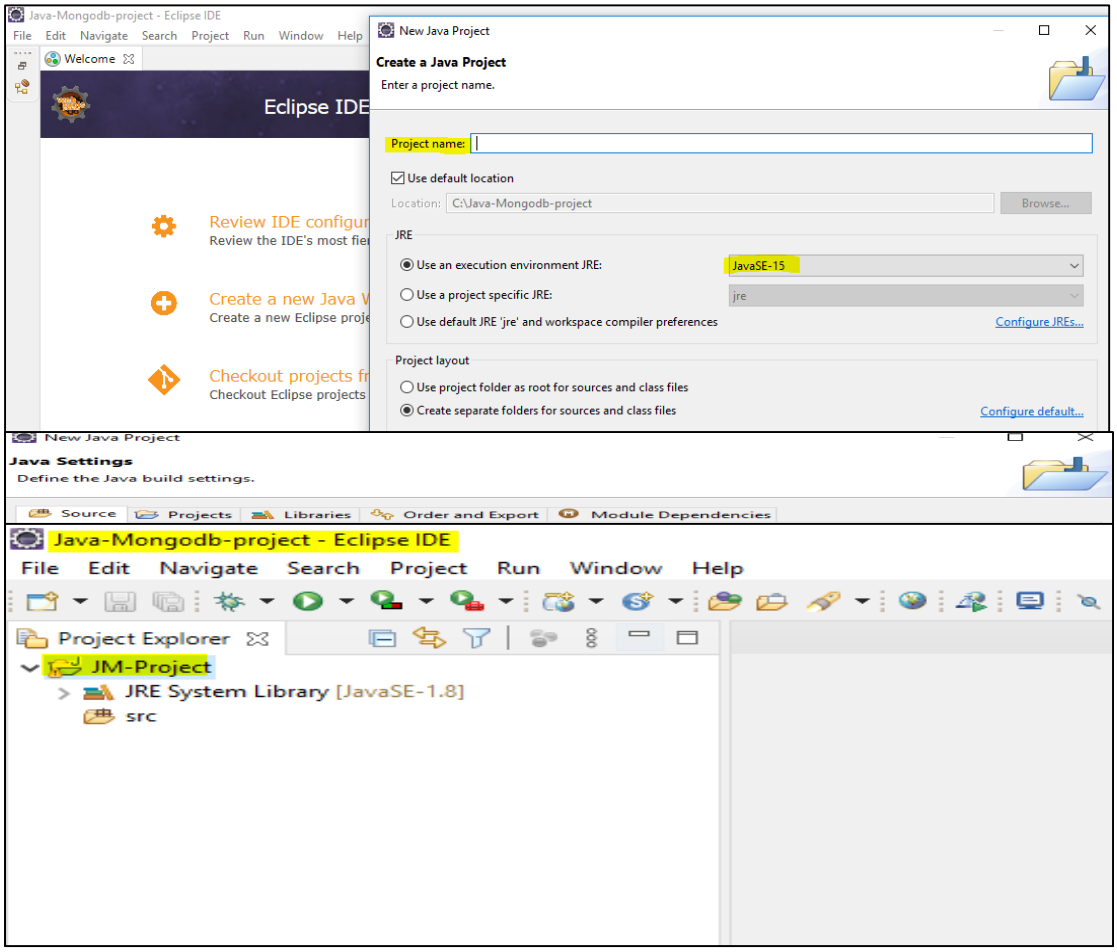
I. Start mongodb service from services.msc
II. Open Rono3t tool ⇒ create new connection ⇒ provide ip and port ⇒ check startup option
III. Connect database and view list of databases if connection is successful.



5. Mongodb connect with Java:

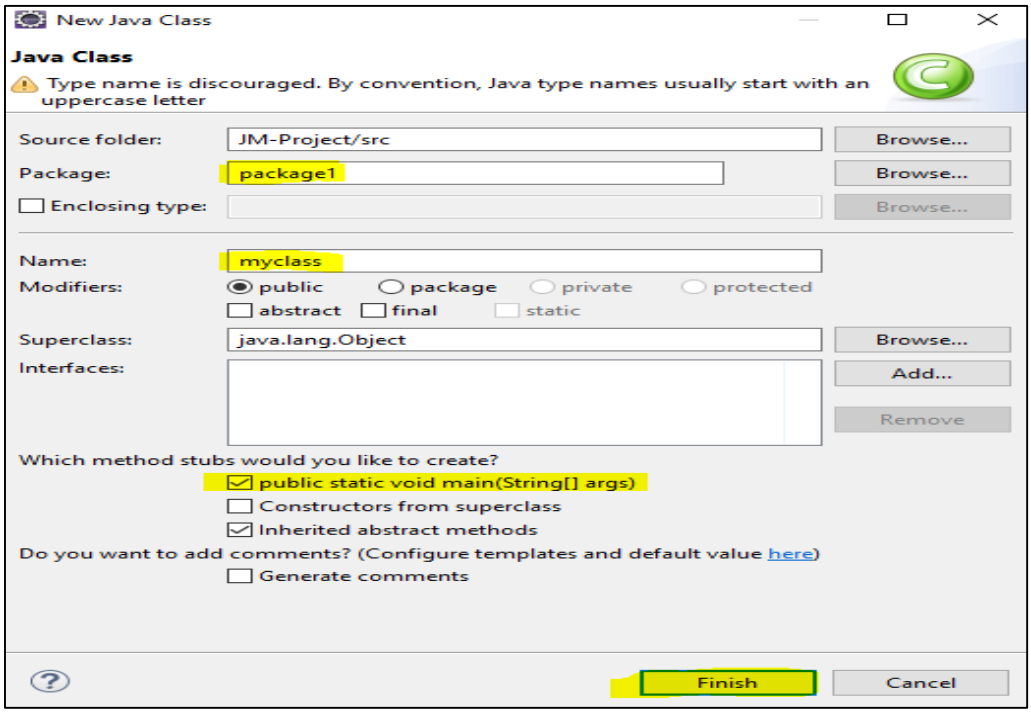
IV. First Java and Eclipse must be install in the system.

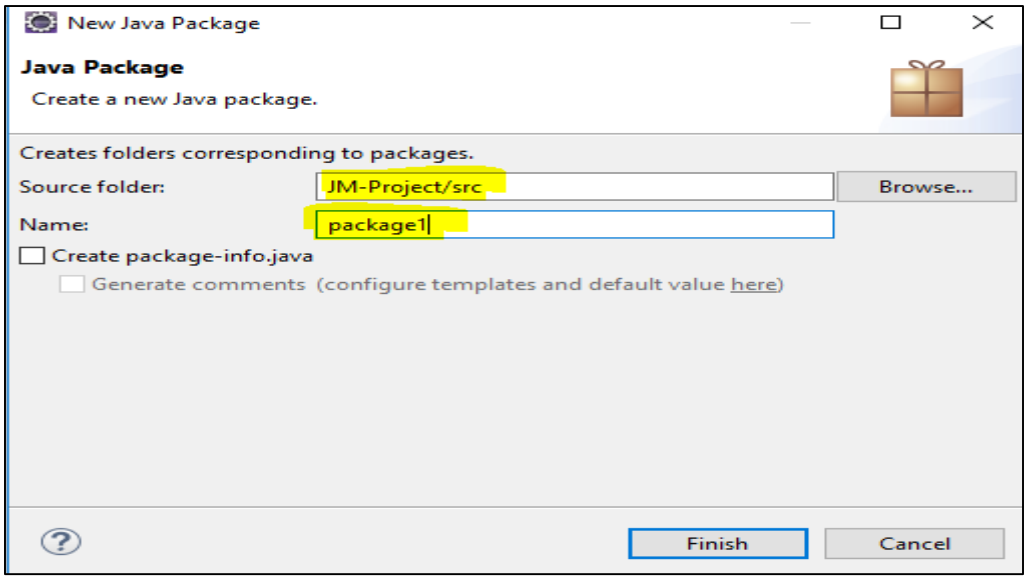
V. Open eclipse editor and create a java project ⇒ project name : JM-Project



VI. Right click on src ⇒ create new package

VII. Right click on package ⇒ create new class

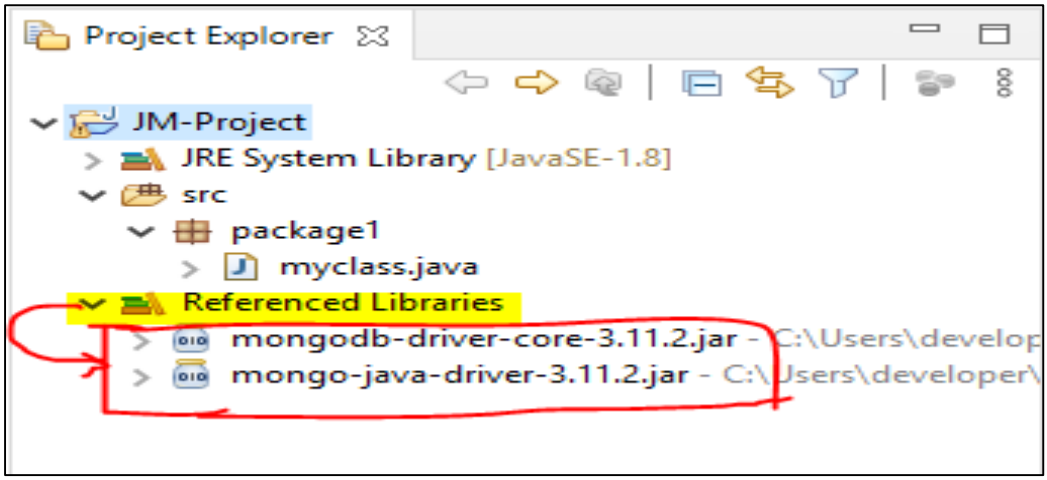


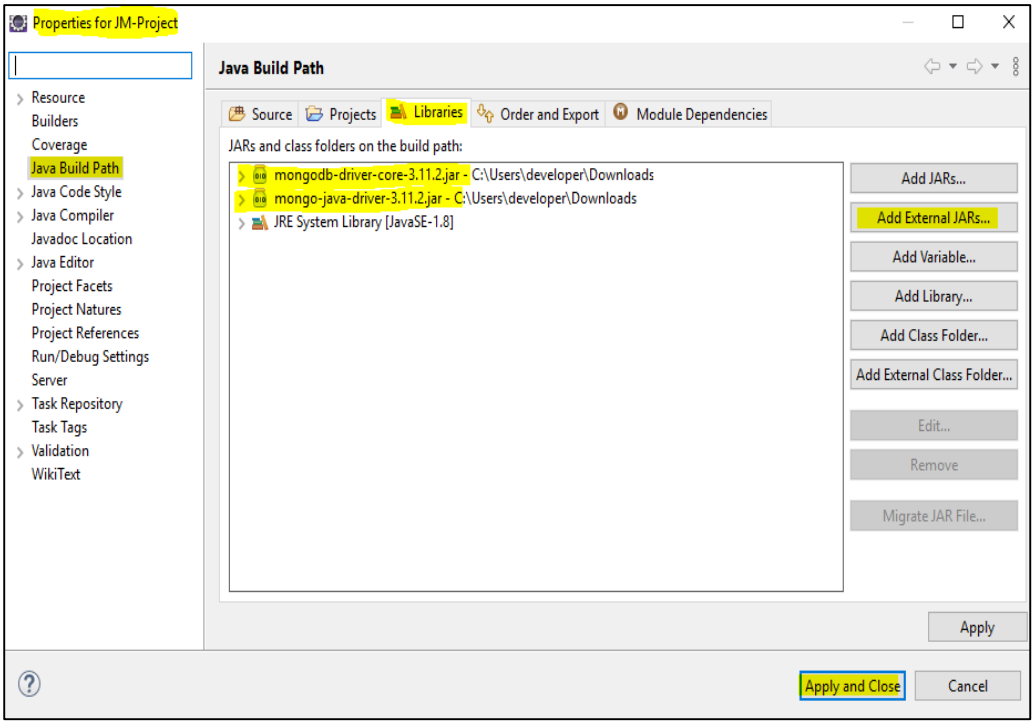
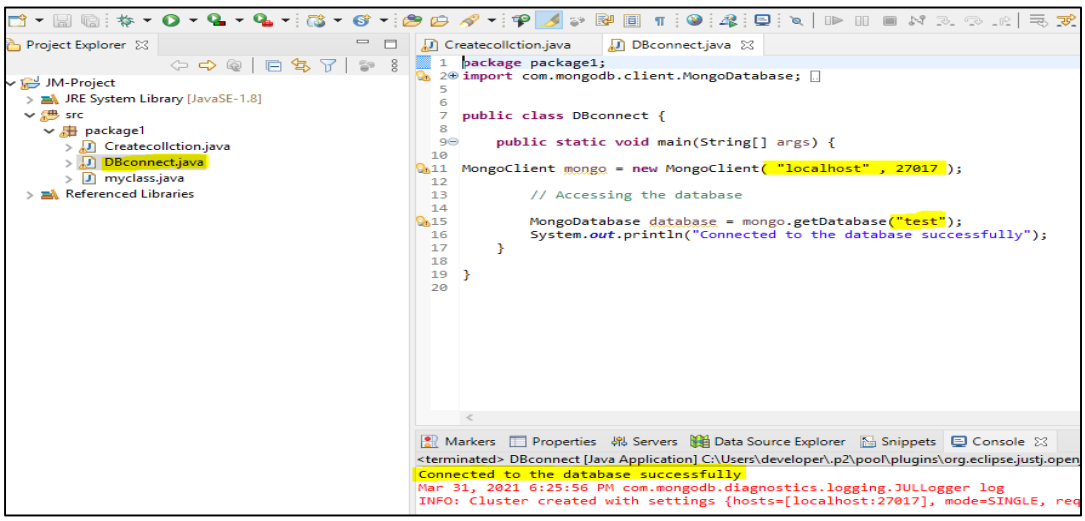


Note: Download External Jar files from Internet:

1) **mongodb-driver-core-3.11.2**
2) **mongo-java-driver-3.11.2**

VIII. Right click on project “JM_Project” ⇒ Build Path ⇒ create build path ⇒ go to libraries ⇒ Add External Jars ⇒ Apply





GitHub Link: https://github.com/Samiranghosh07/java-mongodb-connection