

## Connectivity of MongoDB with JAVA

1. Get MongoDB Driver: download the mongo java driver from authenticated website like **github**.

2. MongoDB Connection:

Use the following Code to connecting to mongo version >2.10

```
// old version, uses Mongo
```

```
Mongo mongo=new Mongo("localhost",27017);
```

```
//since 2.10.0,uses Mongo Client
```

```
MongoClient mongo=new MongoClient("localhost",27017);
```

3. Get Mongo Database:

If database exists, it will be made available otherwise a new database will get created.

```
DB db=mongo.getDB("testdb");
```

4. Get Mongo Collection/Table:

```
DB db=mongo.getDB("testdb");
```

```
DBCcollection Table=db.getCollection("user");
```

A sample java & MongoDB Connectivity example:

```
Import java.net.UnknownHostException;
```

```
Import java.util.data;
```

```
Import com.mongodb.BasicDBObject;
```

```
Import com.mongodb.DB;
```

```
Import com.mongodb.DBCollection;
```

```
Import com.mongodb.DBCursor;
```

```
Import com.mongodb.MongoClient;
```

```
Import com.mongodb.MongoException;
```

```
Public class Sample
```

```
{
```

```
public static void main(String[] args){
```

```

try{
    /*****Connect to MongoDB*****/
//Since 2.10.0 use MongoClient
MongoClient mongo=new MongoClient("localhost",27017);

    /****Get database*****/
//if database doesn't exists MongoDB will create it for you
DB db=mongo.getDB("testdb");
    /*****Get collection/table from 'testdb'*****/
//DBCollection table=db.getCollection("user");

    /*****Insert*****/
//create a document to store key and value
BasicDBObject document=new BasicDBObject();
document.put("name","Rahul");
document.put("age",24);
document.put("createdDate",new Date());
table.insert(document);
    /*****Find and display*****/
BasicDBObject searchQuery=new BasicDBObject();
searchQuery.put("name","sahil");
DBCursor cursor=table.find(searchQuery);
    While(Cursor.hasNext()){
        System.out.println(cursor.next());
    }
}

```

```

/*****Update*****/

// search document where name="rahul" and update it with new values
BasicDBObject query=new BasicDBObject();
newDocument.put("name","ajay");
BasicDBObject updateObj=new BasicDBObject();
updateObj.put("$set",newDocument);
table.update(query,updateObj);

/***** Find and display*****/
BasicDBObject().append("name"ajay");
DBCursor cursor2=table.find(searchQuery2);
while(cursor2.hasNext()){

}

/*****Done*****/
System.out.println("Done");
}
Catch(UnknownHostException e){
e.printStackTrace();
}catch(MongoException e){
}
}
}
}

```

