# Assignment No. 12

# Name:Mrunal Somankar

# Roll No:TCOA46

import com.mongodb.MongoClient; import com.mongodb.MongoClientURI;

import com.mongodb.client.MongoCollection; import com.mongodb.client.MongoDatabase; import com.mongodb.client.model.Filters; import org.bson.Document;

import java.util.\*;

public class JavaMongoDBConnection { public static void main(String[] args) {

MongoClientURI uri = new MongoClientURI("mongodb://localhost:27017");

MongoClient mongoClient = new MongoClient(uri); MongoDatabase database = mongoClient.getDatabase("DB"); MongoCollection<Document> collection =

database.getCollection("Student");

Scanner sc=new Scanner(System.in); int ch,rno,mob,ch1;

String name; do {

System.out.println("1.Insert\n2.Read\n3.Update\n4.Delete\n5.Exit\n"); System.out.print("Enter your choice:")

ch = sc.nextInt(); switch(ch) { case 1:

System.out.println("\nEnter roll no name and mob no to insert:\n"); rno=sc.nextInt();

name=sc.next(); mob=sc.nextInt();

Document student = new Document("name", name).append("rollno", rno).append("mobno", mob);

collection.insertOne(student);

System.out.println("Student inserted: " + student.toJson()); break;

case 2:

System.out.println("\nEnter the Roll no to read:"); rno = sc.nextInt();

Document foundStudent = collection.find(Filters.eq("rollno",

rno)).first();

case 3:

System.out.println("Found student: " + foundStudent.toJson()); break;

3.mob no");

System.out.println("\nEnter Roll no to update:"); rno = sc.nextInt();

System.out.println("Enter choice to be updated 1.Rollno 2.name and

ch1=sc.nextInt(); switch(ch1) { case 1:

rno)));

System.out.println("Enter Roll no to update:"); rno = sc.nextInt(); collection.updateOne(Filters.eq("rollno", rno),

new Document("$set", new Document("rollno",

System.out.println("Student Roll no updated"); break;

name)));

case 2:

System.out.println("Enter name to update:"); name = sc.next(); collection.updateOne(Filters.eq("rollno", rno),

new Document("$set", new Document("name",

System.out.println("Student name updated"); break;

mob)));

case 3:

System.out.println("Enter Mob no to update:"); mob = sc.nextInt(); collection.updateOne(Filters.eq("rollno", rno),

new Document("$set", new Document("mobno",

System.out.println("Student mob noupdated"); break;

}

break; case 4:

System.out.println("\nEnter Roll no to delete:"); rno = sc.nextInt(); collection.deleteOne(Filters.eq("rollno", rno));

System.out.println("Student deleted");

}

}while(ch<=4); mongoClient.close();

}

}

# Output:

1.Insert 2.Read 3.Update 4.Delete 5.Exit

Enter your choice:1

Enter roll no name and mob no to insert: 77

Vaibhavi 46791352

Student inserted: { "\_id" : { "$oid" : "653d4bfaafd79861a4ac370a" }, "name" : "Vaibhavi", "rollno" : 77, "mobno" : 46791352 }

1.Insert 2.Read 3.Update 4.Delete 5.Exit

Enter your choice:2 Enter the Roll no to read:

79

Found student: { "\_id" : { "$oid" : "653d1cb4cb775b0626daf63b" }, "name" : "Rutuja", "rollno" : 79, "mobno" : 78984565 }

1. Insert 2.Read 3.Update 4.Delete 5.Exit

Enter your choice:3 Enter Roll no to update:

79

Enter choice to be updated 1.Rollno 2.name and 3.mob no 3

Enter Mob no to update: 98765432

Student mob noupdated 1.Insert

1. Read 3.Update 4.Delete 5.Exit

Enter your choice:4

Enter Roll no to delete: 79

Student deleted 1.Insert

2.Read 3.Update 4.Delete 5.Exit

Enter your choice: 5