Assignment No. 12

```
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();
                       System.out.println("Found student: " + foundStudent.toJson());
                       break;
                case 3:
                     System.out.println("\nEnter Roll no to update:");
                     rno = sc.nextInt();
                     System.out.println("Enter choice to be updated 1.Rollno 2.name and
3.mob no");
                     ch1=sc.nextInt();
                     switch(ch1) {
                     case 1:
```

```
                        System.out.println("Enter Roll no to update:");
                        rno = sc.nextInt();
                        collection.updateOne(Filters.eq("rollno", rno),
                                        new Document("$set", new Document("rollno",
rno)));
                            System.out.println("Student Roll no updated");
                            break;
                    case 2:
                        System.out.println("Enter name to update:");
                        name = sc.next();
                        collection.updateOne(Filters.eq("rollno", rno),
                                        new Document("$set", new Document("name",
name)));
                            System.out.println("Student name updated");
                            break;
                    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",
mob)));
                            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
2.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