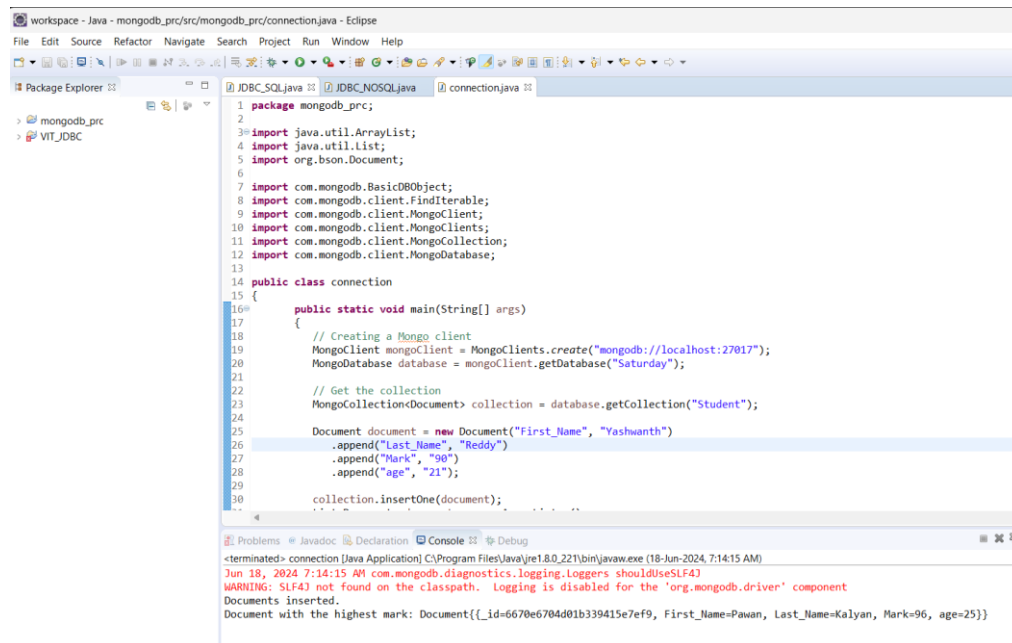


Bomma Yaswanth    class task 2    22BRS1269    15-06-2024

Output 1 :



```
1 package mongodb_prc;
2
3 import java.util.ArrayList;
4 import java.util.List;
5 import org.bson.Document;
6
7 import com.mongodb.BasicDBObject;
8 import com.mongodb.client.FindIterable;
9 import com.mongodb.client.MongoClient;
10 import com.mongodb.client.MongoClients;
11 import com.mongodb.client.MongoCollection;
12 import com.mongodb.client.MongoDatabase;
13
14 public class connection
15 {
16     public static void main(String[] args)
17     {
18         // Creating a Mongo client
19         MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");
20         MongoDatabase database = mongoClient.getDatabase("Saturday");
21
22         // Get the collection
23         MongoCollection<Document> collection = database.getCollection("Student");
24
25         Document document = new Document("First_Name", "Yashwanth")
26             .append("Last_Name", "Reddy")
27             .append("Mark", "90")
28             .append("age", "21");
29
30         collection.insertOne(document);
31     }
32 }
```

Problems Javadoc Declaration Console Debug

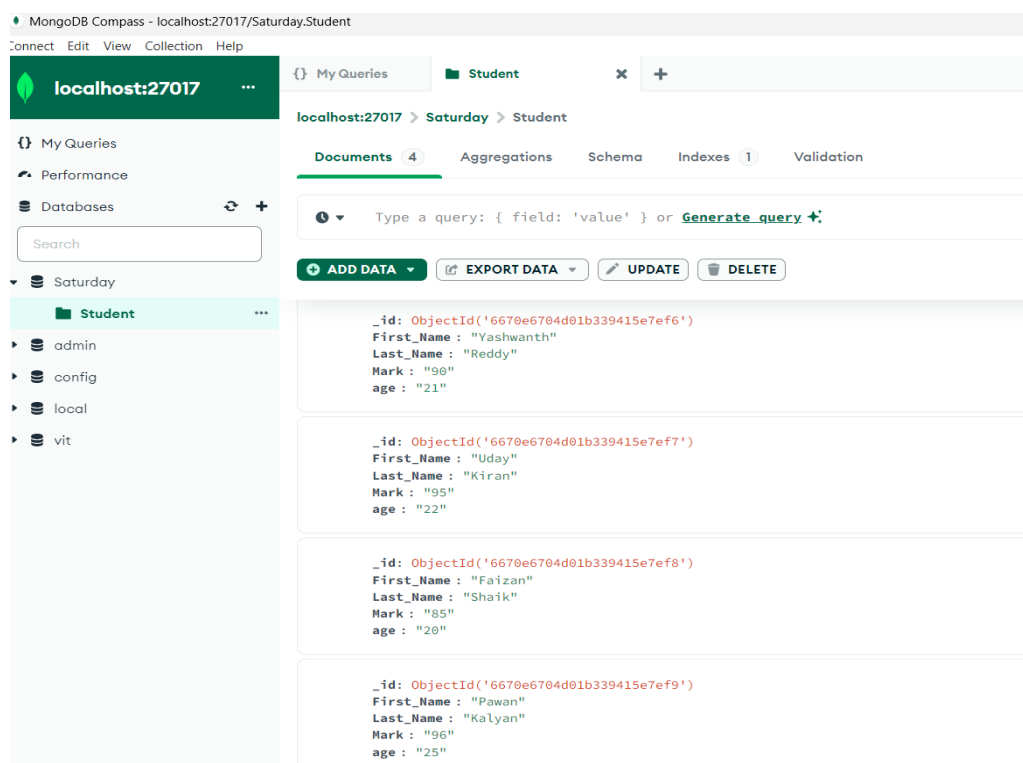
<terminated> connection [Java Application] C:\Program Files\Java\jre1.8.0\_221\bin\javaw.exe (18-Jun-2024, 7:14:15 AM)

Jun 18, 2024 7:14:15 AM com.mongodb.diagnostics.logging.Loggers shouldUseSLF4J

WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component

Documents inserted.

Document with the highest mark: Document({\_id=6670e6704d01b339415e7ef9, First\_Name=Pawan, Last\_Name=Kalyan, Mark=96, age=25})



Code :

```
package mongodb_prc;

import java.util.ArrayList;
import java.util.List;
import org.bson.Document;
```

```

import com.mongodb.BasicDBObject;
import com.mongodb.client.FindIterable;
import com.mongodb.client.MongoClient;
import com.mongodb.client.MongoClients;
import com.mongodb.client.MongoCollection;
import com.mongodb.client.MongoDatabase;

public class connection
{
    public static void main(String[] args)
    {
        // Creating a Mongo client
        MongoClient mongoClient =
MongoClients.create("mongodb://localhost:27017");
        MongoDatabase database = mongoClient.getDatabase("Saturday");

        // Get the collection
        MongoCollection<Document> collection =
database.getCollection("Student");

        Document document = new Document("First_Name", "Yashwanth")
            .append("Last_Name", "Reddy")
            .append("Mark", "90")
            .append("age", "21");

        collection.insertOne(document);
        List<Document> documents = new ArrayList<>();

        documents.add(new Document("First_Name", "Uday")
            .append("Last_Name", "Kiran")
            .append("Mark", "95")
            .append("age", "22"));

        documents.add(new Document("First_Name", "Faizan")
            .append("Last_Name", "Shaik")
            .append("Mark", "85")
            .append("age", "20"));

        documents.add(new Document("First_Name", "Pawan")
            .append("Last_Name", "Kalyan")
            .append("Mark", "96")
            .append("age", "25"));

        collection.insertMany(documents);

        System.out.println("Documents inserted.");
        FindIterable<Document> topStudent = collection.find().sort(new
BasicDBObject("Mark",-1)).limit(1);
        for (Document doc : topStudent) {
            System.out.println("Document with the highest mark: " + doc);
        }
    }
}

```

Output 2 :

workspace - Java - mongodb\_prc/src/mongodb\_prc/connection.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

```

1 package mongodb_prc;
2 import java.util.ArrayList;
3 import java.util.List;
4 import org.bson.Document;
5 import com.mongodb.BasicDBObject;
6 import com.mongodb.client.FindIterable;
7 import com.mongodb.client.MongoClient;
8 import com.mongodb.client.MongoClients;
9 import com.mongodb.client.MongoCollection;
10 import com.mongodb.client.MongoDatabase;
11 import com.mongodb.client.model.Filters;
12
13 public class connection
14 {
15     public static void main(String[] args) {
16         // Creating a Mongo client
17         MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");
18         MongoDatabase database = mongoClient.getDatabase("Saturday");
19
20         // Get the collection
21         MongoCollection<Document> collection = database.getCollection("Employee");
22
23         // Inserting initial documents
24         Document document1 = new Document("First_Name", "Harish")
25             .append("Last_Name", "Kumar")
26             .append("Salary", 35000)
27             .append("age", 25);
28
29         collection.insertOne(document1);
30     }
31 }

```

Problems Javadoc Declaration Console Debug

```

<terminated> connection [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (18-Jun-2024, 7:22:13 AM)
Jun 18, 2024 7:22:13 AM com.mongodb.diagnostics.logging.Loggers shouldUseSLF4J
WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
Documents inserted.
Employees between 30 and 40 with the lowest salary:
Document[{_id=6670e84e6a9c31704e092eef, First_Name=Shaik, Last_Name=Faizan, Salary=31000, age=31}]
Document[{_id=6670e84e6a9c31704e092ef2, First_Name=MS, Last_Name=Dhoni, Salary=31000, age=40}]

```

MongoDB Compass - localhost:27017/Saturday.Employee

Connect Edit View Collection Help

localhost:27017

My Queries Employee

localhost:27017 > Saturday > Employee

Documents 6 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

ADD DATA EXPORT DATA UPDATE DELETE

```

_id: ObjectId('6670e84e6a9c31704e092eed')
First_Name: "Harish"
Last_Name: "Kumar"
Salary: 35000
age: 25

```

```

_id: ObjectId('6670e84e6a9c31704e092eee')
First_Name: "Uday"
Last_Name: "Kiran"
Salary: "40000"
age: 28

```

```

_id: ObjectId('6670e84e6a9c31704e092eef')
First_Name: "Shaik"
Last_Name: "Faizan"
Salary: 31000
age: 31

```

```

_id: ObjectId('6670e84e6a9c31704e092ef0')
First_Name: "Pawan"
Last_Name: "Kalyan"
Salary: 40000
age: 35

```

Code :

```

package mongodb_prc;
import java.util.ArrayList;
import java.util.List;
import org.bson.Document;
import com.mongodb.BasicDBObject;

```

```

import com.mongodb.client.FindIterable;
import com.mongodb.client.MongoClient;
import com.mongodb.client.MongoClients;
import com.mongodb.client.MongoCollection;
import com.mongodb.client.MongoDatabase;
import com.mongodb.client.model.Filters;

public class connection
{
    public static void main(String[] args) {
        // Creating a Mongo client
        MongoClient mongoClient =
MongoClients.create("mongodb://localhost:27017");
        MongoDatabase database = mongoClient.getDatabase("Saturday");

        // Get the collection
        MongoCollection<Document> collection = database.getCollection("Employee");

        // Inserting initial documents
        Document document1 = new Document("First_Name", "Harish")
            .append("Last_Name", "Kumar")
            .append("Salary", 35000)
            .append("age", 25);

        collection.insertOne(document1);

        List<Document> documents = new ArrayList<>();
        documents.add(new Document("First_Name", "Uday")
            .append("Last_Name", "Kiran")
            .append("Salary", "40000")
            .append("age", 28));

        documents.add(new Document("First_Name", "Shaik")
            .append("Last_Name", "Faizan")
            .append("Salary", 31000)
            .append("age", 31));

        documents.add(new Document("First_Name", "Pawan")
            .append("Last_Name", "Kalyan")
            .append("Salary", 40000)
            .append("age", 35));

        documents.add(new Document("First_Name", "Virat")
            .append("Last_Name", "Kohli")
            .append("Salary", 39000)
            .append("age", 33));

        documents.add(new Document("First_Name", "MS")
            .append("Last_Name", "Dhoni")
            .append("Salary", 31000)
            .append("age", 40));

        collection.insertMany(documents);

        System.out.println("Documents inserted.");
        FindIterable<Document> lowSalary =
collection.find(Filters.and(Filters.gte("age", 30),Filters.lte("age", 40)))
            .sort(new BasicDBObject("Salary",1)).limit(1);
    }
}

```

```

        if (lowSalary != null)
        {
            int lowestSalary = lowSalary.first().getInteger("Salary");
            List<Document> List = new ArrayList<>();
            for (Document doc : collection.find(Filters.and(Filters.gte("age",
30),Filters.lte("age", 40),Filters.eq("Salary", lowestSalary))))
            {
                List.add(doc);
            }

            System.out.println("Employees between 30 and 40 with the lowest
salary:");
            for (Document doc : List)
            {
                System.out.println(doc);
            }
        }
    }
}

```