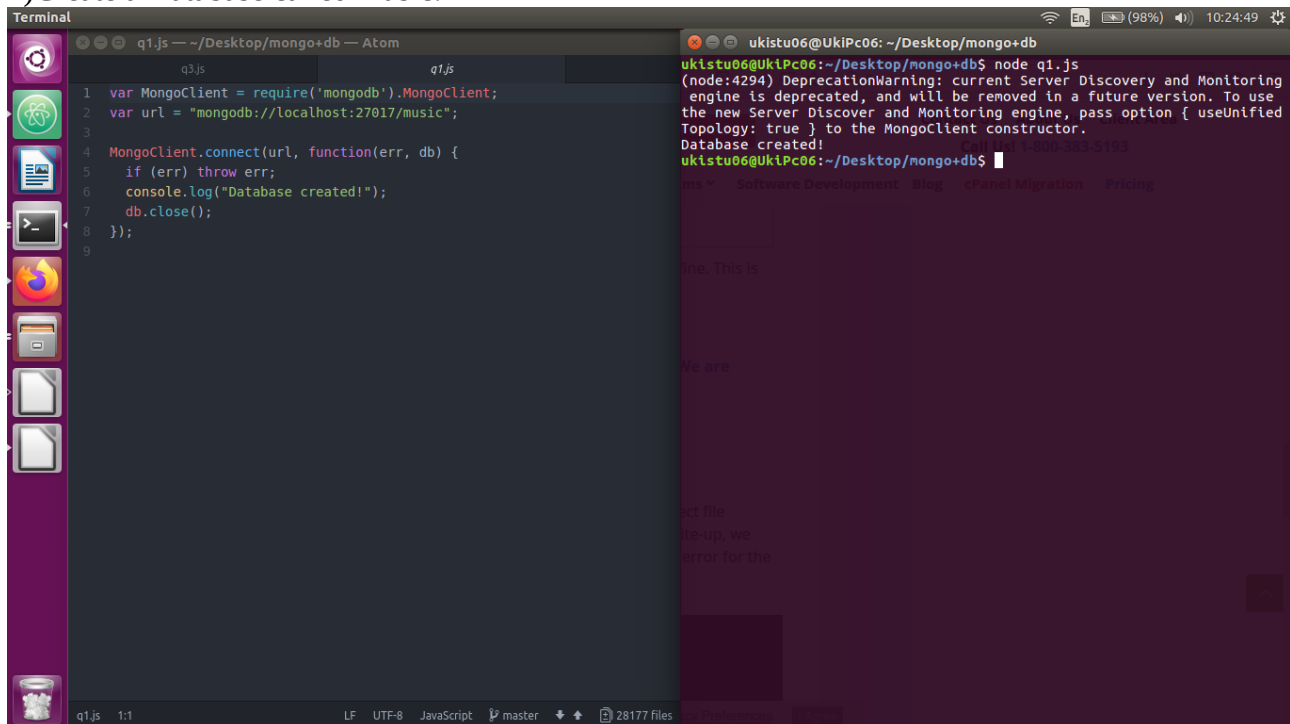


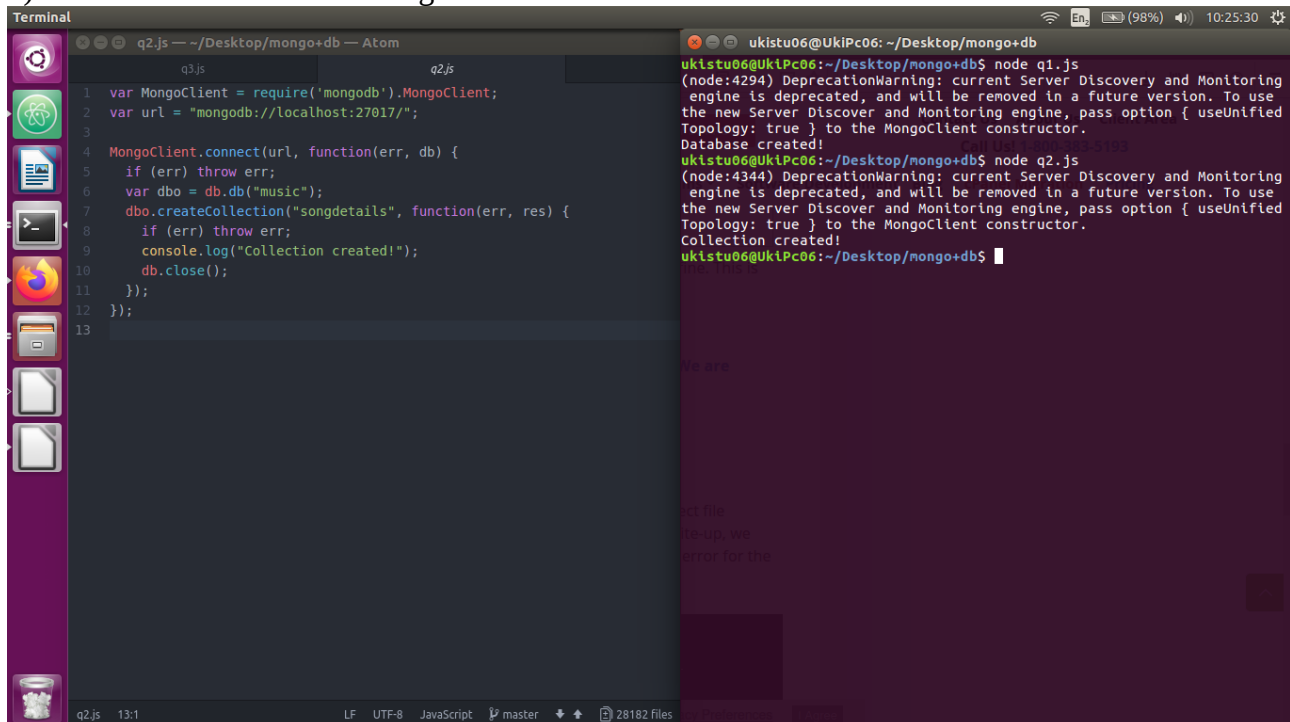
1) Create a Database called music.



```
Terminal
q1.js -- ~/Desktop/mongo+db -- Atom
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/music";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   console.log("Database created!");
7   db.close();
8 });
9

ukistu06@UkiPc06: ~/Desktop/mongo+db
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q1.js
(node:4294) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Database created!
ukistu06@UkiPc06:~/Desktop/mongo+db$
```

2) Create a collection called songdetails.



```
Terminal
q2.js -- ~/Desktop/mongo+db -- Atom
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   dbo.createCollection("songdetails", function(err, res) {
8     if (err) throw err;
9     console.log("Collection created!");
10    db.close();
11  });
12 });
13

ukistu06@UkiPc06:~/Desktop/mongo+db
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q1.js
(node:4294) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Database created!
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q2.js
(node:4344) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Collection created!
ukistu06@UkiPc06:~/Desktop/mongo+db$
```

3) Create the above 5 song documents.

```
Terminal
q3.js -- ~/Desktop/mongo+db -- Atom
q3.js
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/music";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   var myobj = [
8     {"Song Name": "Thaniye Thananthaniyea", Film: "Rhythm", "Music Director": "A.R. Rahman", "Singer": "Shankar Mahathevan"},
9     {"Song Name": "Evano Oruvan", Film: "Alai Payuthey", "Music Director": "A.R. Rahman", "Singer": "Swarnalatha"},
10    {"Song Name": "Roja Poonthoodam", Film: "Kannukul Nilavu", "Music Director": "A.R. Rahman", "Singer": "Unnikrishnan"},
11    {"Song Name": "Vennilavae Vennilavee Vinnalthaandi", Film: "Minsara Kanavu", "Music Director": "A.R. Rahman", "Singer": "Haritharan"},
12    {"Song Name": "Sollamal Thottu Chellam Thendral", Film: "Dhaeena", "Music Director": "A.R. Rahman", "Singer": "Haritharan"}
13  ];
14  dbo.collection("songdetails").insertMany(myobj, function(err, res) {
15    if (err) throw err;
16    console.log("1 document inserted");
17    db.close();
18  });
19
ukistu06@UkiPc06: ~/Desktop/mongo+db
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q2.js
(node:4344) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Collection created!
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q3.js
(node:4455) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
1 document inserted
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q4.js
(node:4455) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
1 document inserted
ukistu06@UkiPc06:~/Desktop/mongo+db$ clear
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q3.js
(node:4532) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
1 document inserted
ukistu06@UkiPc06:~/Desktop/mongo+db$
```

#### 4) List all documents created.

```
Terminal
q4.js -- ~/Desktop/mongo+db -- Atom
q4.js
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/music";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   dbo.collection("songdetails").find({}).toArray(function(err, result) {
8     if (err) throw err;
9     console.log(result);
10    db.close();
11  });
12
13
ukistu06@UkiPc06: ~/Desktop/mongo+db
(node:4578) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
[
  {
    id: 5e3263466a321a11b4bf1522,
    'Song Name': 'Thaniye Thananthaniyea',
    Film: 'Rhythm',
    'Music Director': 'A.R. Rahman',
    Singer: 'Shankar Mahathevan'
  },
  {
    id: 5e3263466a321a11b4bf1523,
    'Song Name': 'Evano Oruvan',
    Film: 'Alai Payuthey',
    'Music Director': 'A.R. Rahman',
    Singer: 'Swarnalatha'
  },
  {
    id: 5e3263466a321a11b4bf1524,
    'Song Name': 'Roja Poonthoodam',
    Film: 'Kannukul Nilavu',
    'Music Director': 'A.R. Rahman',
    Singer: [ 'Unnikrishnan', 'Anuradha Sriram' ]
  },
  {
    id: 5e3263466a321a11b4bf1525,
    'Song Name': 'Vennilavae Vennilavee Vinnalthaandi',
    Film: 'Minsara Kanavu',
    'Music Director': 'A.R. Rahman',
    Singer: [ 'Haritharan', 'Sadhana Sargam' ]
  },
  {
    id: 5e3263466a321a11b4bf1526,
    'Song Name': 'Sollamal Thottu Chellam Thendral',
    Film: 'Dhaeena',
    'Music Director': 'A.R. Rahman',
    Singer: 'Haritharan'
  }
]
```

#### 5) List A.R.Rahman's songs.

```
Terminal
q5.js -- ~/Desktop/mongo+db -- Atom
q5.js
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   var query = { 'Music Director': "A.R. Rahman" };
8   dbo.collection("songdetails").find(query).toArray(function(err, result)
9     if (err) throw err;
10    console.log(result);
11    db.close();
12  });
13 });
14

ukistu06@UkiPc06: ~/Desktop/mongo+db
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q5.js
(node:4709) DeprecationWarning: current Server Discovery and Monitoring
engine is deprecated, and will be removed in a future version. To use
the new Server Discovery and Monitoring engine, pass option { useUnified
Topology: true } to the MongoClient constructor.
[
  {
    id: 5e3263466a321a11b4bf1522,
    'Song Name': 'Thanbye Thananathiyea',
    Film: 'Rhythm',
    'Music Director': 'A.R. Rahman',
    Singer: 'Shankar Mahathevan'
  },
  {
    id: 5e3263466a321a11b4bf1523,
    'Song Name': 'Evano Oruvan',
    Film: 'Alai Payuthey',
    'Music Director': 'A.R. Rahman',
    Singer: 'Swarnalatha'
  },
  {
    id: 5e3263466a321a11b4bf1525,
    'Song Name': 'Vennilavae Vennilavee Vinnalthaandi',
    Film: 'Minsara Kanavu',
    'Music Director': 'A.R. Rahman',
    Singer: [ 'Hariharan', 'Sadhana Sargam' ]
  }
]
ukistu06@UkiPc06:~/Desktop/mongo+db$
```

6) List A.R.Rahman's songs sung by Unnikrishnan.

```
Terminal
q6.js -- ~/Desktop/mongo+db -- Atom
q5.js
q6.js
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   var query = { $and: [ { "Music Director": "A.R. Rahman" }, { "Singer": "Unik
8   dbo.collection("songdetails").find(query).toArray(function(err, result)
9     if (err) throw err;
10    console.log(result);
11    db.close();
12  });
13 });
14

ukistu06@UkiPc06:~/Desktop/mongo+db
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q6.js
(node:4786) DeprecationWarning: current Server Discovery and Monitoring
engine is deprecated, and will be removed in a future version. To use
the new Server Discovery and Monitoring engine, pass option { useUnified
Topology: true } to the MongoClient constructor.
[]
ukistu06@UkiPc06:~/Desktop/mongo+db$
```

7) Delete the song which you don't like.

```
Terminal
q7.js -- ~/Desktop/mongo+db -- Atom
q3.js q5.js q6.js q7.js
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   var myquery = { "Song Name": 'Evano Oruvan' };
8   dbo.collection("songdetails").deleteOne(myquery, function(err, obj) {
9     if (err) throw err;
10    console.log("1 document deleted");
11    db.close();
12  });
13 });
14

ukistu06@UkiPc06: ~/Desktop/mongo+db
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q6.js
(node:4786) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
[]
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q7.js
(node:4786) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
1 document deleted
ukistu06@UkiPc06:~/Desktop/mongo+db$
```

8) Add new song which is your favourite.

```
Terminal
q8.js -- ~/Desktop/mongo+db -- Atom
q3.js q5.js q6.js q8.js
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/mydb";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   var myobj = { "Song Name": "Vachirukean Nenjukula", Film: "Silampaatan" };
8   dbo.collection("songdetails").insertOne(myobj, function(err, res) {
9     if (err) throw err;
10    console.log("1 document inserted");
11    db.close();
12  });
13 });
14

ukistu06@UkiPc06: ~/Desktop/mongo+db
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q6.js
(node:4786) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
[]
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q7.js
(node:4786) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
1 document deleted
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q8.js
(node:4893) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
1 document inserted
ukistu06@UkiPc06:~/Desktop/mongo+db$
```

9) List Songs sung by Hariharan from Minsara kanavu film.

```
Terminal
q9.js -- ~/Desktop/mongo+db -- Atom
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("mydb");
7   var query = {$and:[{ Singer: "Hariharan" },{Film:'Minsara Kanavu'}]}];
8   dbo.collection("customers").find(query).toArray(function(err, result)
9     if (err) throw err;
10    console.log(result);
11    db.close();
12  });
13 });
14
```

```
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q9.js
(node:4952) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
[
  {
    id: 5e3160c350534711babbf5ce,
    'Song Name': 'Vennilavae Vennilavee Vinnaithaandi',
    Film: 'Minsara Kanavu',
    'Music Director': 'A.R. Rahman',
    Singer: [ 'Hariharan', 'Sadhana Sargam' ]
  },
  {
    id: 5e3160e682774d113c9b51a5,
    'Song Name': 'Vennilavae Vennilavee Vinnaithaandi',
    Film: 'Minsara Kanavu',
    'Music Director': 'A.R. Rahman',
    Singer: [ 'Hariharan', 'Sadhana Sargam' ]
  }
]
```

10)List out the singers' names in your document.

```
Terminal
q10.js -- ~/Desktop/mongo+db -- Atom
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   dbo.collection("songdetails").find({}, {projection:{ _id : 0, Singer :
8     if (err) throw err;
9     console.log(result);
10    db.close();
11  });
12 });
13
```

```
ukistu06@UkiPc06:~/Desktop/mongo+db$ node q10.js
(node:5250) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discovery and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
[
  { Singer: 'Shankar Mahathevan' },
  { Singer: [ 'Unnikrishnan', 'Anuradha Sriram' ] },
  { Singer: [ 'Hariharan', 'Sadhana Sargam' ] },
  { Singer: 'Hariharan' },
  { Singer: 'Hariharan' }
]
```