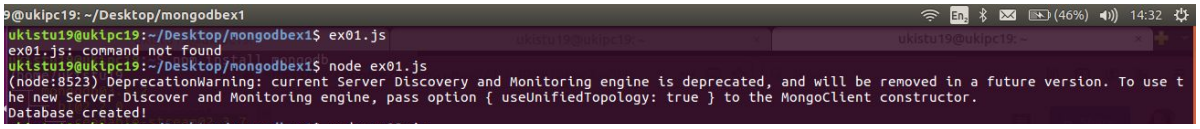
1) Create a Database called music.

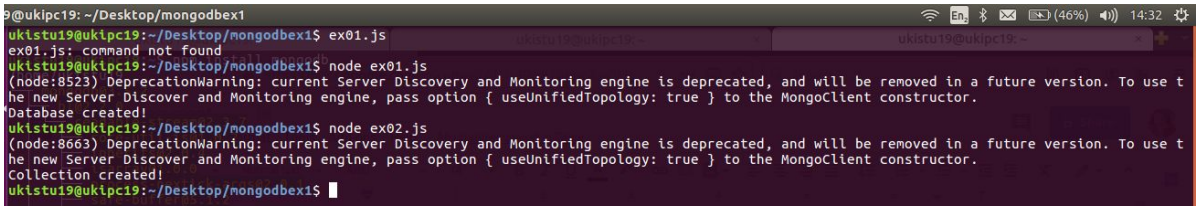
```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/music";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  console.log("Database created!");
  db.close();
});
```



2) Create a collection called songdetails.

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/music";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  console.log("Database created!");
  db.close();
});
```

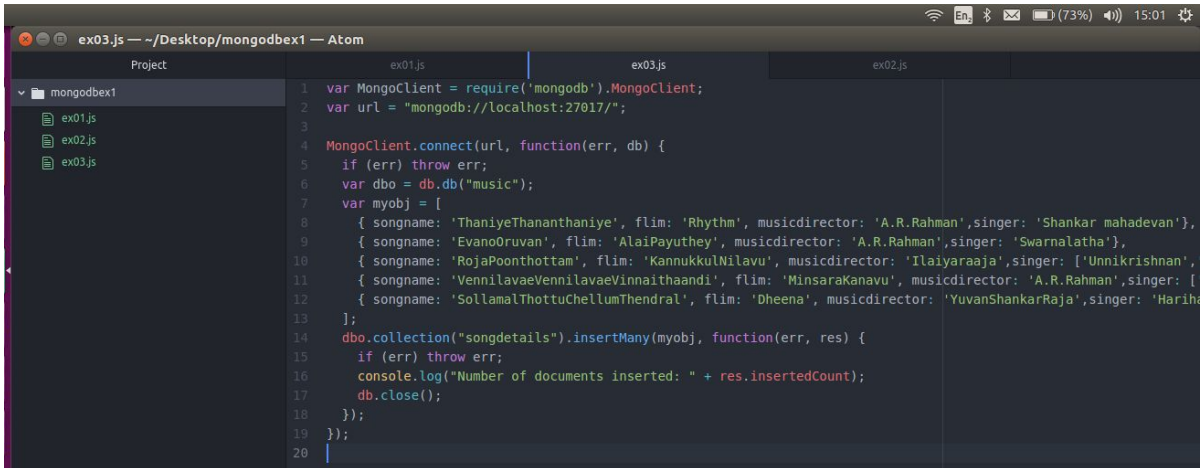
ex01.js — ~/Desktop/mongodbex1 — Atom
Project
mongodbex1
ex01.js
ex02.js
ex01.js
ex02.js
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/music";
MongoClient.connect(url, function(err, db) {
if (err) throw err;
console.log("Database created!");
db.close();
});

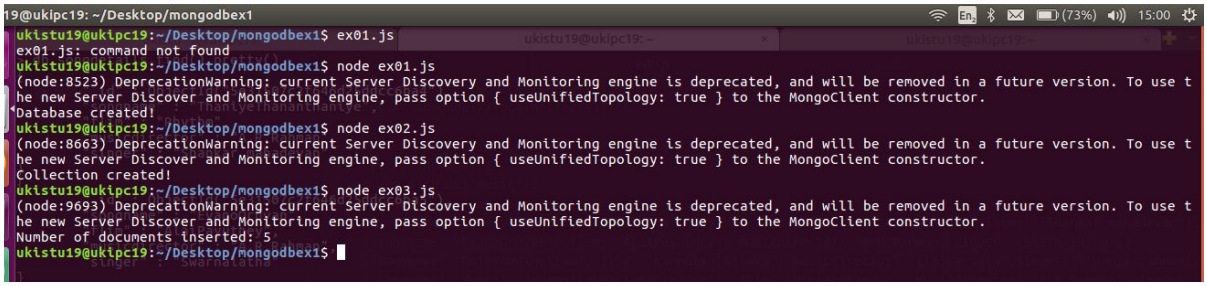

ukistu19@ukipc19:~/Desktop/mongodbex1$ ex01.js
ex01.js: command not found
ukistu19@ukipc19:~/Desktop/mongodbex1$ node ex01.js
(node:8523) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use t
he new Server Discover and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Database created!
ukistu19@ukipc19:~/Desktop/mongodbex1$ node ex02.js
(node:8663) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use t
he new Server Discover and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Collection created!
ukistu19@ukipc19:~/Desktop/mongodbex1$

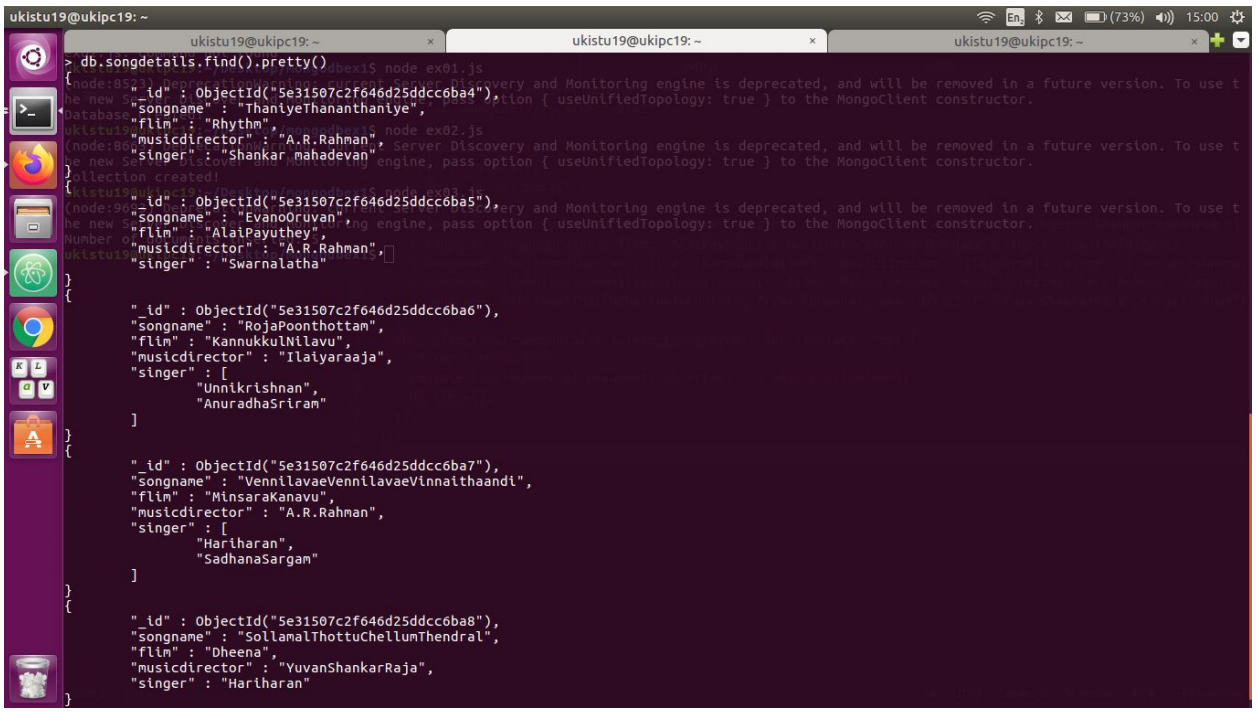
> show collections
> use music
switched to db music
> show collections
songdetails
>

3) Create the above 5 song documents.

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("music");
  var myobj = [
        { songname: 'ThaniyeThananthaniye', flim: 'Rhythm', musicdirector:
'A.R.Rahman',singer: 'Shankar mahadevan'},
        { songname: 'EvanoOruvan', flim: 'AlaiPayuthey', musicdirector:
'A.R.Rahman',singer: 'Swarnalatha'},
        { songname: 'RojaPoonthottam', flim: 'KannukkulNilavu', musicdirector:
'Ilaiyaraaja',singer: ['Unnikrishnan','AnuradhaSriram']},
        { songname: 'VennilavaeVennilavaeVinnaithaandi', flim: 'MinsaraKanavu',
musicdirector: 'A.R.Rahman',singer: ['Hariharan','SadhanaSargam']},
        { songname: 'SollamalThottuChellumThendral', flim: 'Dheena', musicdirector:
'YuvanShankarRaja',singer: 'Hariharan'}
  ];
  dbo.collection("songdetails").insertMany(myobj, function(err, res) {
        if (err) throw err;
        console.log("Number of documents inserted: " + res.insertedCount);
        db.close();
  });
});
```

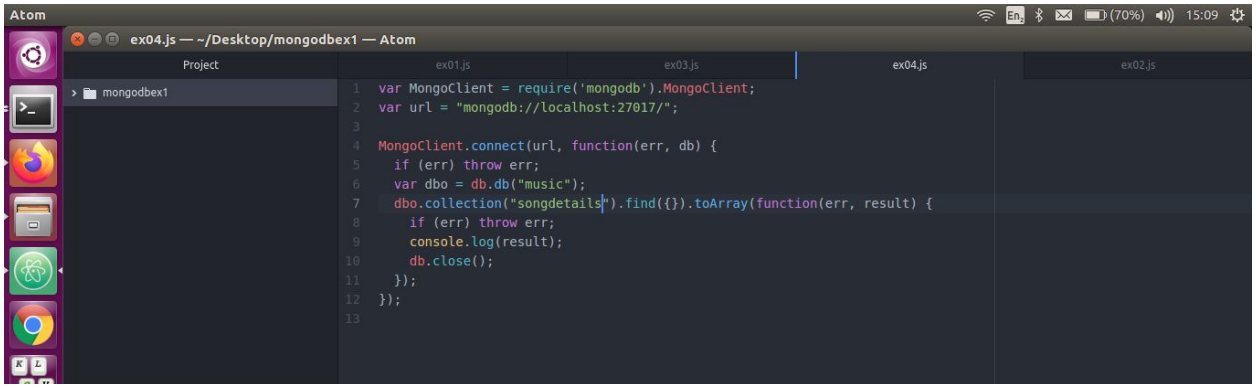


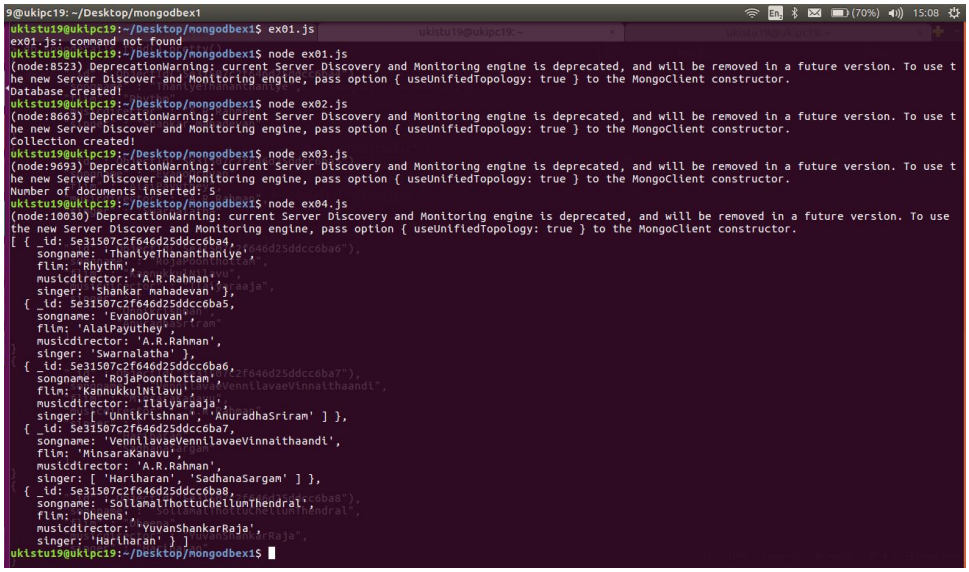

19@ukipc19: ~/Desktop/mongodbex1
(73%) 15:00
ukistu19@ukipc19:~/Desktop/mongodbex1$ ex01.js
ex01.js: command not found
ukistu19@ukipc19:~/Desktop/mongodbex1$ node ex01.js
(node:8523) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use t
he new Server Discover and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Database created!
ukistu19@ukipc19:~/Desktop/mongodbex1$ node ex02.js
(node:8663) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use t
he new Server Discover and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Collection created!
ukistu19@ukipc19:~/Desktop/mongodbex1$ node ex03.js
(node:9693) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use t
he new Server Discover and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Number of documents inserted: 5
ukistu19@ukipc19:~/Desktop/mongodbex1$


ukistu19@ukipc19: ~
(73%) 15:00
ukistu19@ukipc19: ~
ukistu19@ukipc19: ~
ukistu19@ukipc19: ~
> db.songdetails.find().pretty()
{
"_id" : ObjectId("5e31507c2f646d25ddcc6ba4"),
"songname" : "ThaniyeThananthaniye",
"flim" : "Rhythm",
"musicdirector" : "A.R.Rahman",
"singer" : "Shankar mahadevan"
}
{
"_id" : ObjectId("5e31507c2f646d25ddcc6ba5"),
"songname" : "EvanoOruvan",
"flim" : "AlaiPayuthey",
"musicdirector" : "A.R.Rahman",
"singer" : "Swarnalatha"
}
{
"_id" : ObjectId("5e31507c2f646d25ddcc6ba6"),
"songname" : "RojaPoonthottam",
"flim" : "KannukkulNilavu",
"musicdirector" : "Ilaiyaraaja",
"singer" : [
"Unnikrishnan",
"AnuradhaSriram"
]
}
{
"_id" : ObjectId("5e31507c2f646d25ddcc6ba7"),
"songname" : "VennilavaeVennilavaeVinnaithaandi",
"flim" : "MinsaraKanavu",
"musicdirector" : "A.R.Rahman",
"singer" : [
"Hariharan",
"SadhanaSargam"
]
}
{
"_id" : ObjectId("5e31507c2f646d25ddcc6ba8"),
"songname" : "SollamalThottuChellumThendral",
"flim" : "Dheena",
"musicdirector" : "YuvanShankarRaja",
"singer" : "Hariharan"
}

4) List all documents created.

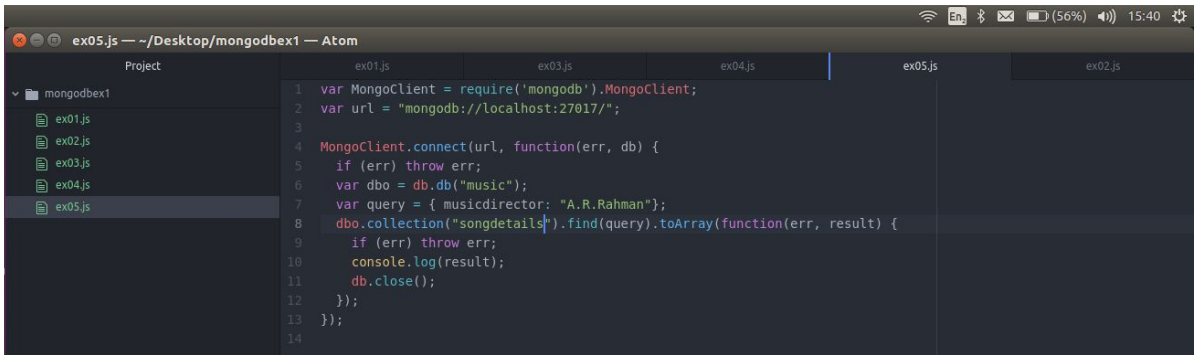
```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("music");
  dbo.collection("songdetails").find({}).toArray(function(err, result) {
        if (err) throw err;
        console.log(result);
        db.close();
  });
});
```





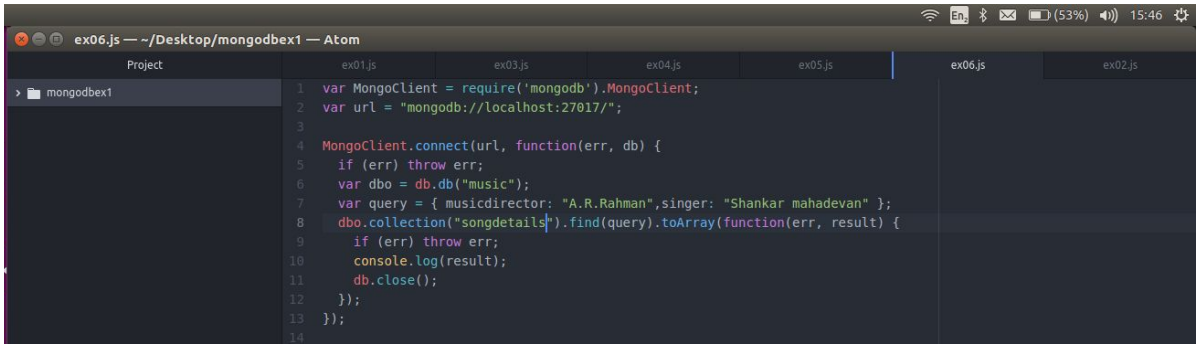
5) List A.R.Rahman’s songs.

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("music");
  var query = { musicdirector: "A.R.Rahman"};
  dbo.collection("songdetails").find(query).toArray(function(err, result) {
        if (err) throw err;
        console.log(result);
        db.close();
  });
});
```



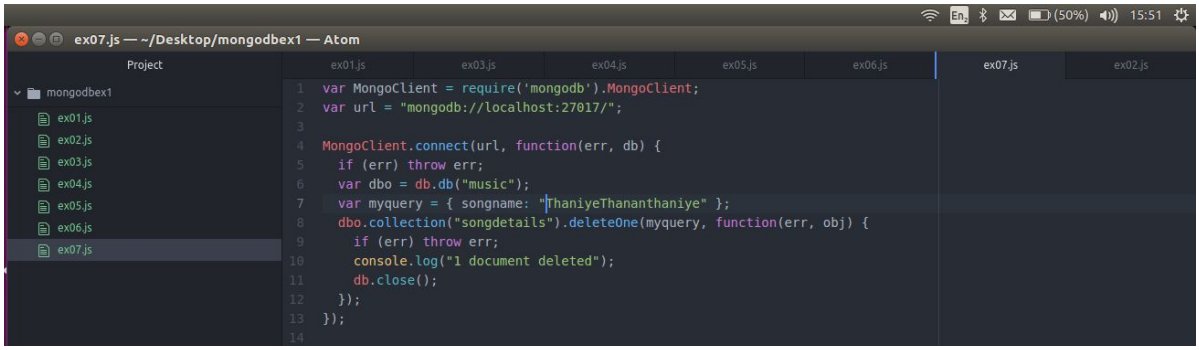
6) List A.R.Rahman’s songs sung by Unnikrishnan.

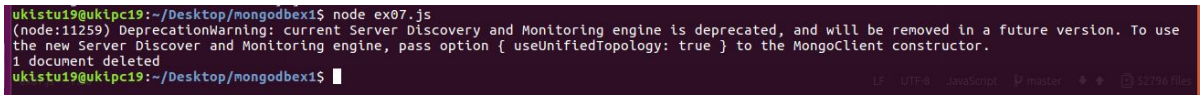
```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("music");
  var query = { musicdirector: "A.R.Rahman",singer: "Shankar mahadevan" };
  dbo.collection("songdetails").find(query).toArray(function(err, result) {
        if (err) throw err;
        console.log(result);
        db.close();
  });
});
```



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

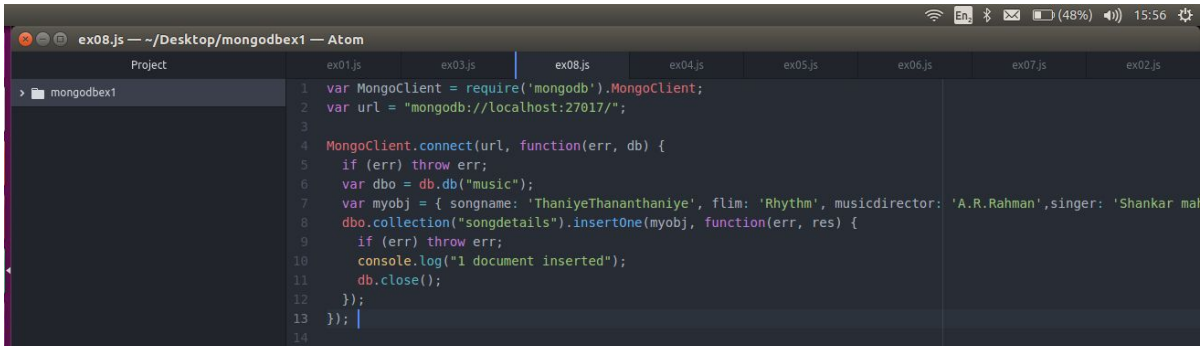
```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("music");
  var myquery = { songname: "ThaniyeThananthaniye" };
  dbo.collection("songdetails").deleteOne(myquery, function(err, obj) {
        if (err) throw err;
        console.log("1 document deleted");
        db.close();
  });
});
```

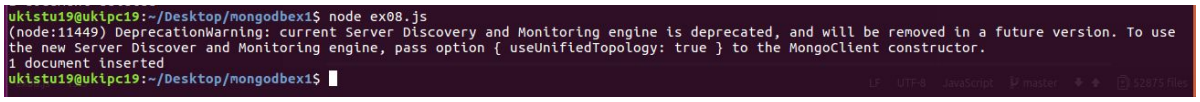




8) Add new song which is your favourite.

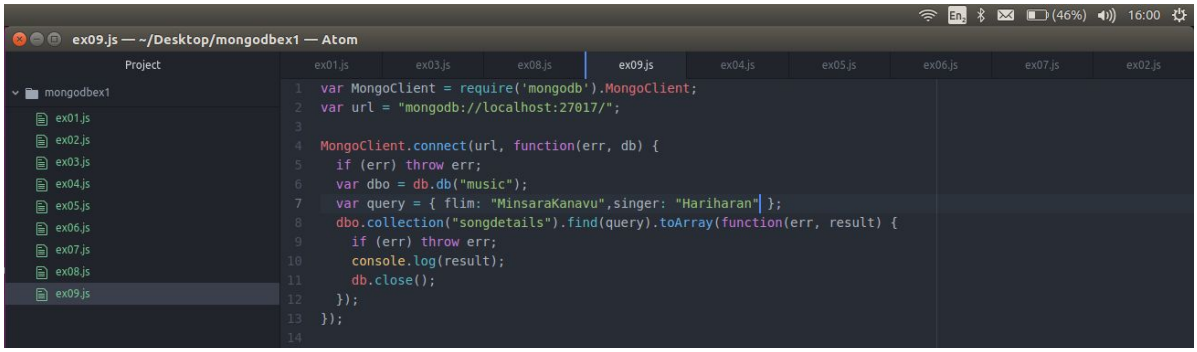
```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("music");
  var myobj = { songname: 'ThaniyeThananthaniye', flim: 'Rhythm', musicdirector:
'A.R.Rahman',singer: 'Shankar mahadevan' };
  dbo.collection("songdetails").insertOne(myobj, function(err, res) {
        if (err) throw err;
        console.log("1 document inserted");
        db.close();
  });
});
```

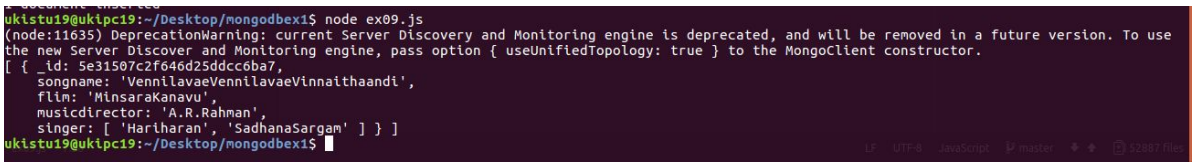


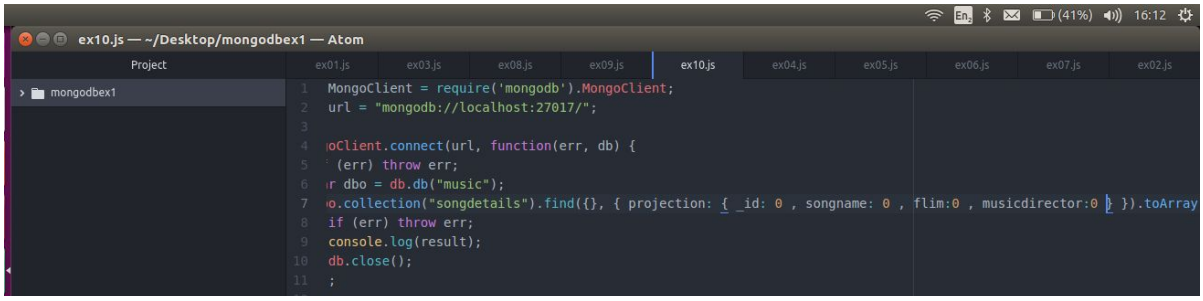
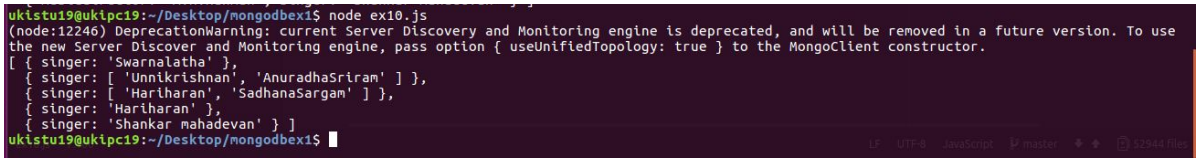


9) List Songs sung by Hariharan from Minsara kanavu film.

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("music");
  var query = { flim: "MinsaraKanavu",singer: "Hariharan" };
  dbo.collection("songdetails").find(query).toArray(function(err, result) {
          if (err) throw err;
          console.log(result);
          db.close();
  });
});
```





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

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("music");
  dbo.collection("songdetails").find({}, { projection: { _id: 0 , songname: 0 , flim:0 ,
musicdirector:0 } }).toArray(function(err, result) {
        if (err) throw err;
        console.log(result);
        db.close();
  });
});
```