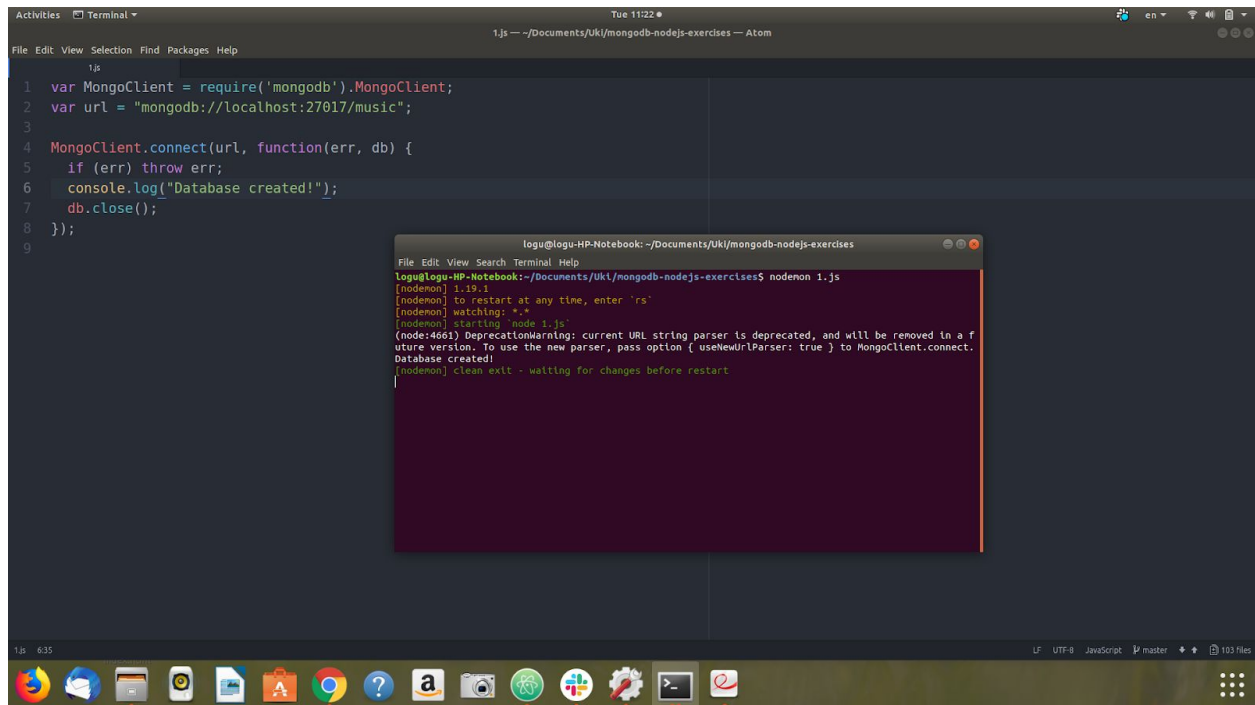


1) Create a Database called music.



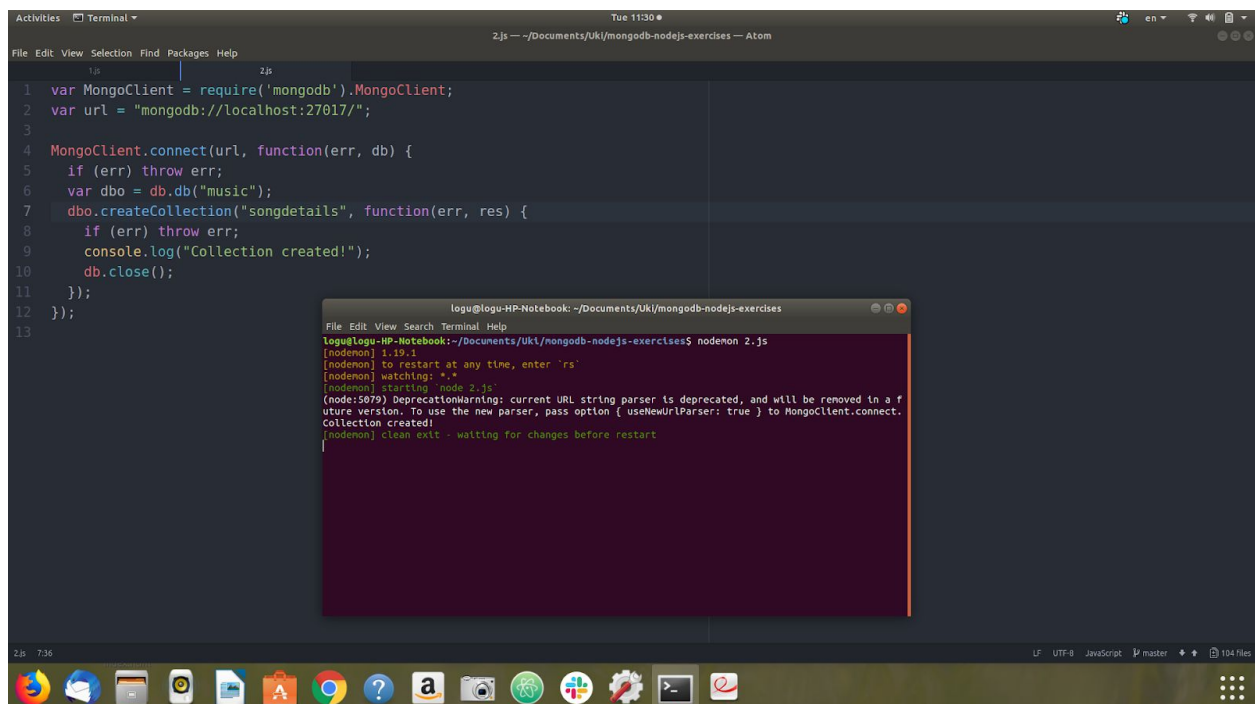
The screenshot shows a terminal window with a code editor in the background. The code editor displays a JavaScript file named `1.js` with the following content:

```
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
```

The terminal window shows the command `node 1.js` being executed. The output is as follows:

```
logu@logu-HP-Notebook: ~/Documents/Uki/mongodb-nodejs-exercises
logu@logu-HP-Notebook:~/Documents/Uki/mongodb-nodejs-exercises$ node 1.js
(node:466) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
Database created!
(node:466) clean exit - waiting for changes before restart
```

2) Create a collection called songdetails.



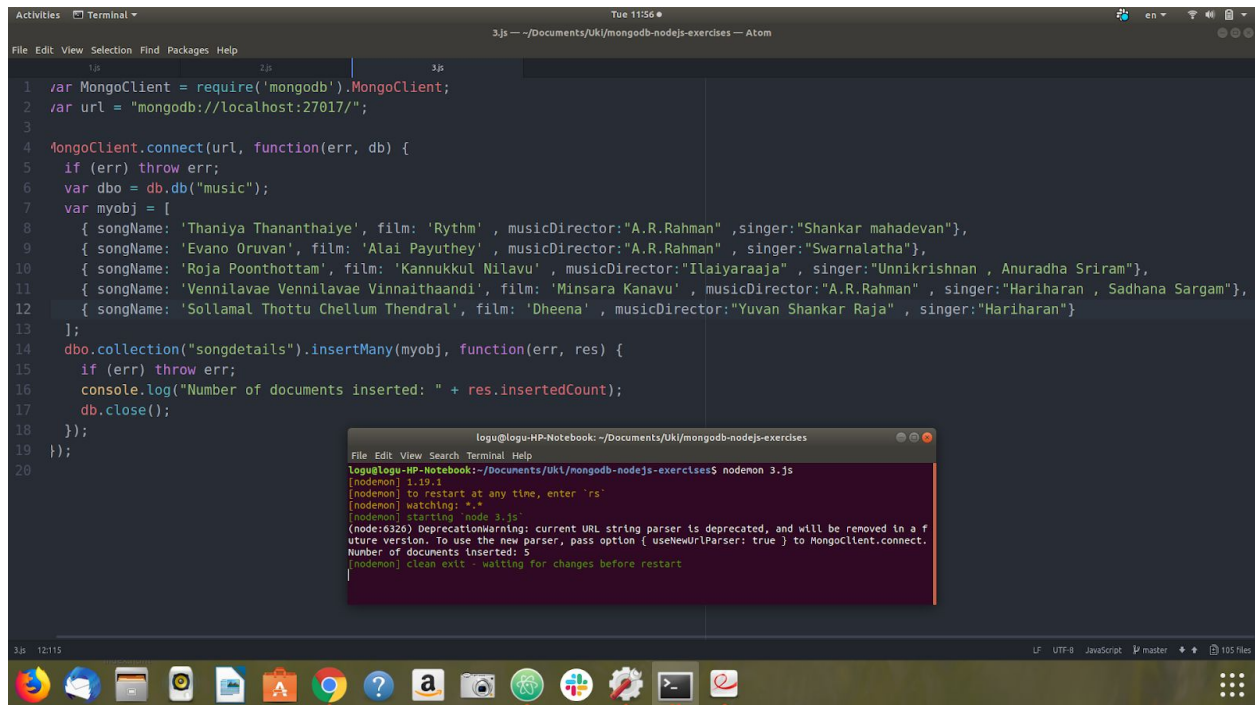
The screenshot shows a terminal window with a code editor in the background. The code editor displays a JavaScript file named `2.js` with the following content:

```
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
```

The terminal window shows the command `node 2.js` being executed. The output is as follows:

```
logu@logu-HP-Notebook: ~/Documents/Uki/mongodb-nodejs-exercises
logu@logu-HP-Notebook:~/Documents/Uki/mongodb-nodejs-exercises$ node 2.js
(node:507) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
Collection created!
(node:507) clean exit - waiting for changes before restart
```

3) Create the above 5 song documents.

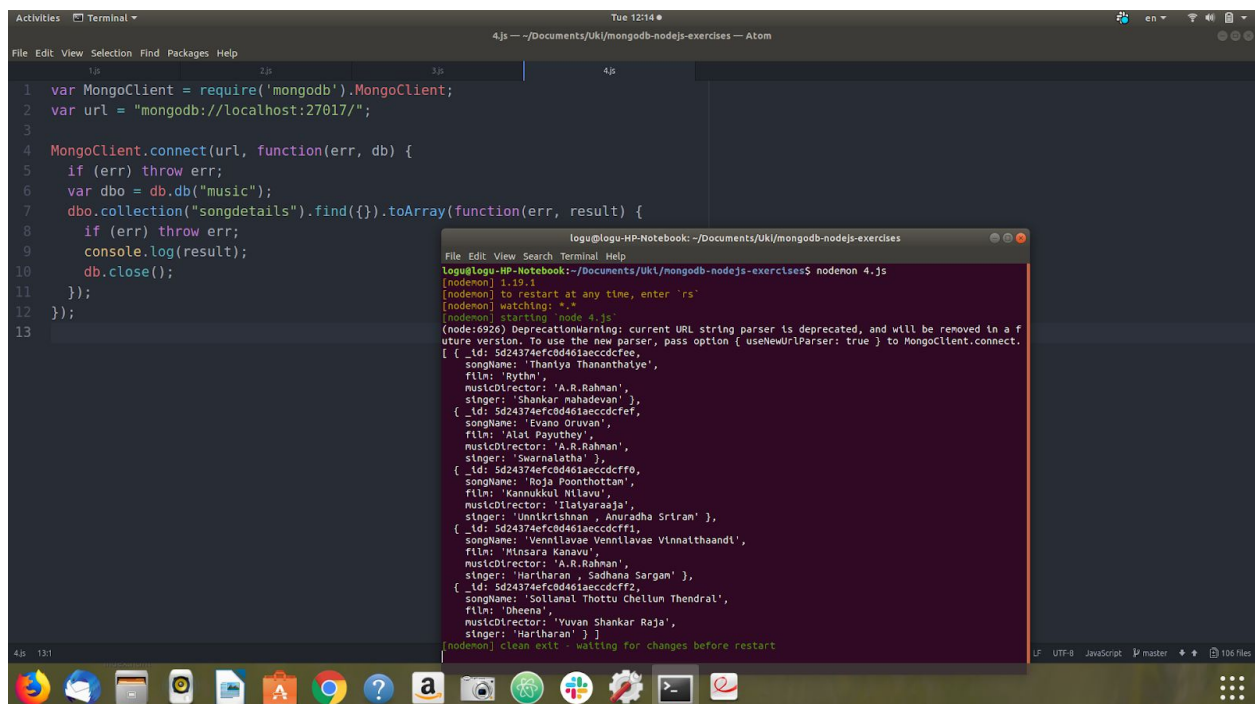


```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   var myobj = [
8     { songName: 'Thaniya Thananthaiye', film: 'Rythm', musicDirector: 'A.R.Rahman', singer: 'Shankar mahadevan' },
9     { songName: 'Evano Oruvan', film: 'Alai Payuthey', musicDirector: 'A.R.Rahman', singer: 'Swarnalatha' },
10    { songName: 'Roja Poonthottam', film: 'Kannukkul Nilavu', musicDirector: 'Ilaiyaraaja', singer: 'Unnikrishnan, Anuradha Sriram' },
11    { songName: 'Vennilavae Vennilavae Vinnathaandi', film: 'Minsara Kanavu', musicDirector: 'A.R.Rahman', singer: 'Hariharan, Sadhana Sargam' },
12    { songName: 'Sollamal Thottu Chellum Thendral', film: 'Dheena', musicDirector: 'Yuvan Shankar Raja', singer: 'Hariharan' }
13  ];
14  dbo.collection("songdetails").insertMany(myobj, function(err, res) {
15    if (err) throw err;
16    console.log("Number of documents inserted: " + res.insertedCount);
17    db.close();
18  });
19 });
20
```

logu@logu-HP-Notebook: ~/Documents/Uki/mongodb-nodejs-exercises

```
logu@logu-HP-Notebook:~/Documents/Uki/mongodb-nodejs-exercises$ nodemon 3.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node 3.js'
(node:6326) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
Number of documents inserted: 5
[nodemon] clean exit - waiting for changes before restart
```

4) List all documents created.

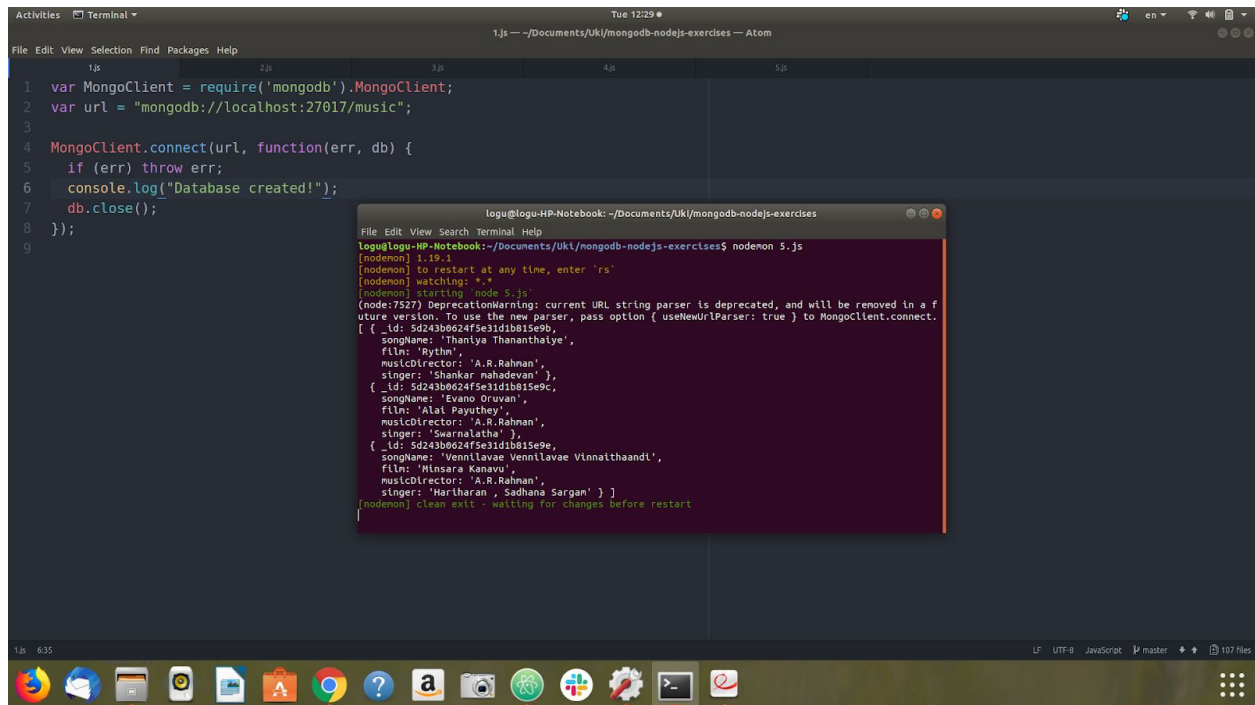


```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   dbo.collection("songdetails").find({}).toArray(function(err, result) {
8     if (err) throw err;
9     console.log(result);
10    db.close();
11  });
12 });
13
```

logu@logu-HP-Notebook: ~/Documents/Uki/mongodb-nodejs-exercises

```
logu@logu-HP-Notebook:~/Documents/Uki/mongodb-nodejs-exercises$ nodemon 4.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node 4.js'
(node:6926) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[ { _id: '5d24374efcd0461aeccdcfe',
  songName: 'Thaniya Thananthaiye',
  film: 'Rythm',
  musicDirector: 'A.R.Rahman',
  singer: 'Shankar mahadevan' },
  { _id: '5d24374efcd0461aeccdcfe',
  songName: 'Evano Oruvan',
  film: 'Alai Payuthey',
  musicDirector: 'A.R.Rahman',
  singer: 'Swarnalatha' },
  { _id: '5d24374efcd0461aeccdcff0',
  songName: 'Roja Poonthottam',
  film: 'Kannukkul Nilavu',
  musicDirector: 'Ilaiyaraaja',
  singer: 'Unnikrishnan, Anuradha Sriram' },
  { _id: '5d24374efcd0461aeccdcff1',
  songName: 'Vennilavae Vennilavae Vinnathaandi',
  film: 'Minsara Kanavu',
  musicDirector: 'A.R.Rahman',
  singer: 'Hariharan, Sadhana Sargam' },
  { _id: '5d24374efcd0461aeccdcff2',
  songName: 'Sollamal Thottu Chellum Thendral',
  film: 'Dheena',
  musicDirector: 'Yuvan Shankar Raja',
  singer: 'Hariharan' } ]
[nodemon] clean exit - waiting for changes before restart
```

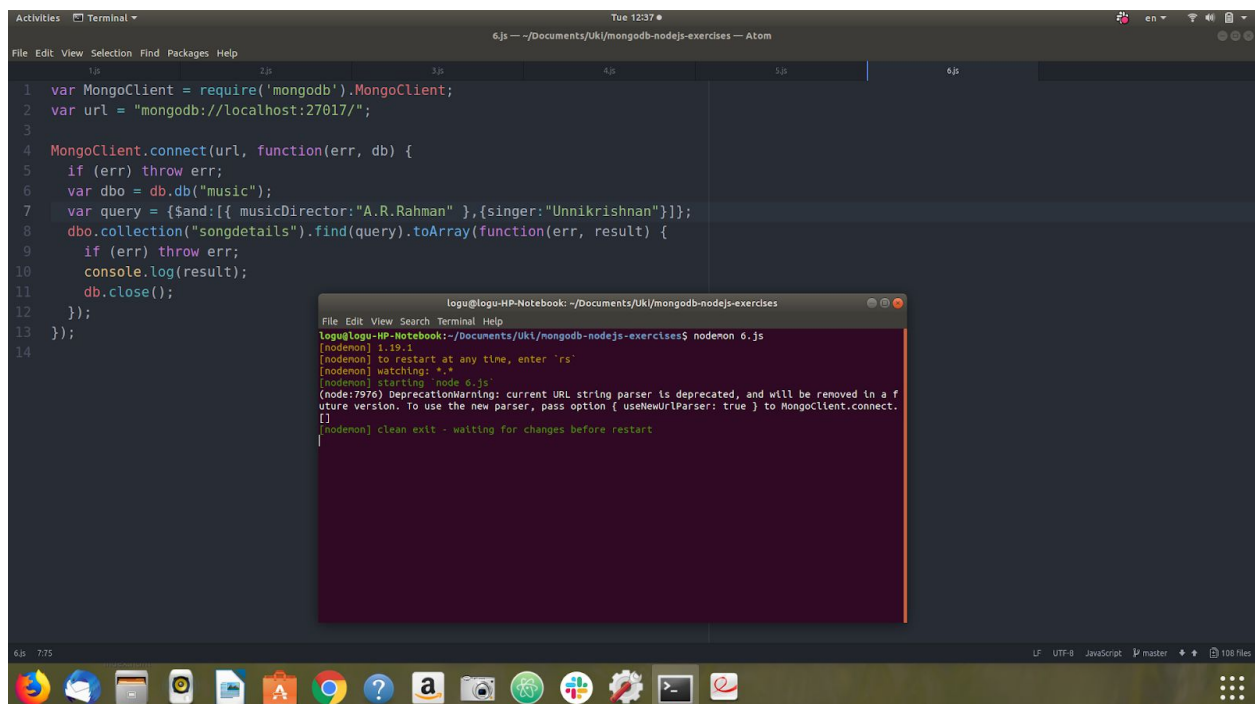
5) List A.R.Rahman's songs.



```
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
```

```
logu@logu-HP-Notebook: ~/Documents/UK/mongodb-nodejs-exercises
File Edit View Search Terminal Help
logu@logu-HP-Notebook:~/Documents/UK/mongodb-nodejs-exercises$ nodemon 5.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node 5.js`
(node:7527) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewURLParser: true } to MongoClient.connect.
[ { _id: 5d243b0624f5e31d1b815e9b,
  songName: 'Thaniya Thananthaiye',
  film: 'Rhythm',
  musicDirector: 'A.R.Rahman',
  singer: 'Shankar nahadevan' },
  { _id: 5d243b0624f5e31d1b815e9c,
  songName: 'Evano Oruvan',
  film: 'Alai Payuthey',
  musicDirector: 'A.R.Rahman',
  singer: 'Gwamalatha' },
  { _id: 5d243b0624f5e31d1b815e9e,
  songName: 'Vinnilavae Vinnilavae Vinnaithaandi',
  film: 'Minsara Kanavu',
  musicDirector: 'A.R.Rahman',
  singer: 'Hartharan , Sadhana Sargam' } ]
[nodemon] clean exit - waiting for changes before restart
```

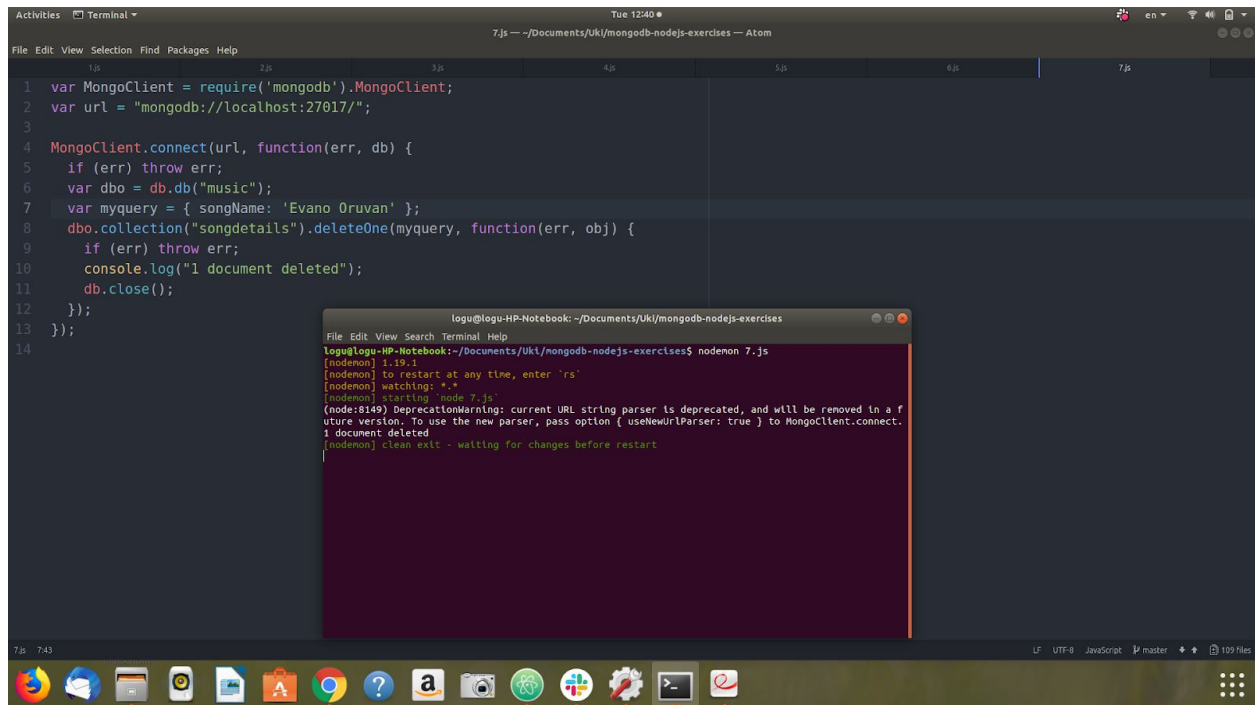
6) List A.R.Rahman's songs sung by Unnikrishnan.



```
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:[{ musicDirector:"A.R.Rahman" },{singer:"Unnikrishnan"}]};
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
```

```
logu@logu-HP-Notebook: ~/Documents/UK/mongodb-nodejs-exercises
File Edit View Search Terminal Help
logu@logu-HP-Notebook:~/Documents/UK/mongodb-nodejs-exercises$ nodemon 6.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node 6.js`
(node:7976) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewURLParser: true } to MongoClient.connect.
[]
[nodemon] clean exit - waiting for changes before restart
```

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



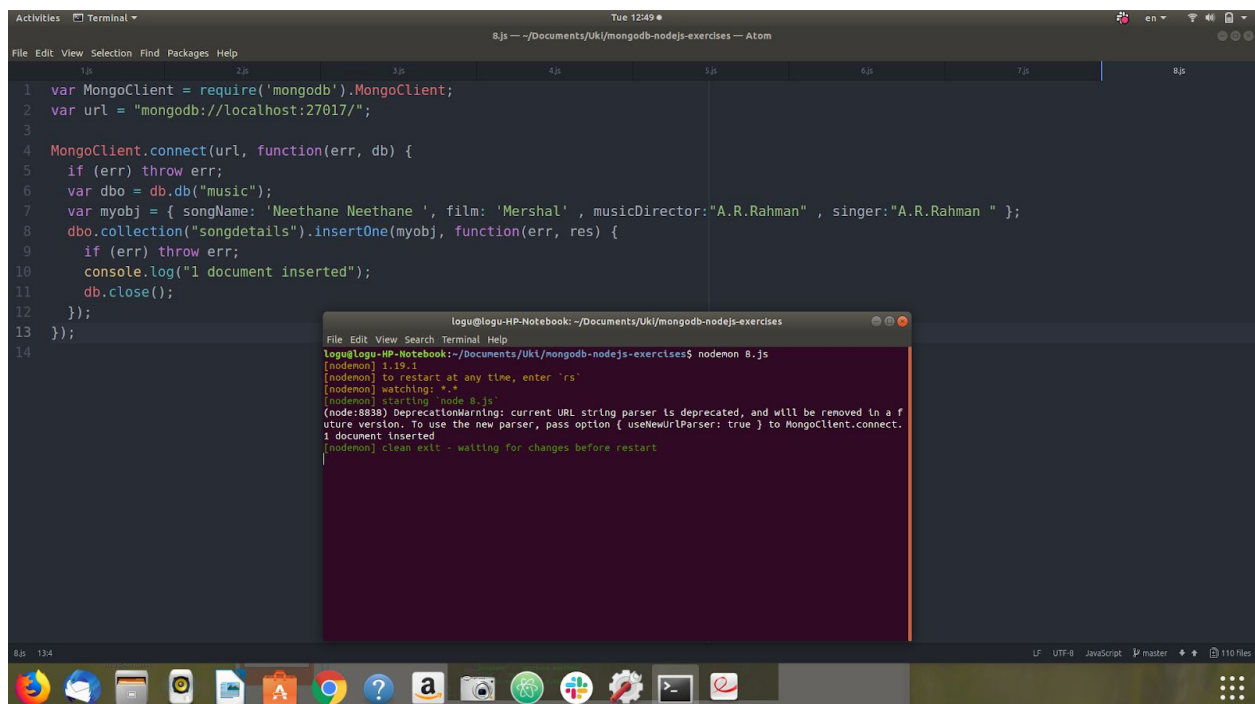
The screenshot shows a terminal window with a dark background. The top bar indicates the time is 12:40 on Tuesday. The terminal title is "7.js - ~/Documents/Uki/mongodb-nodejs-exercises - Atom". The code in the editor is as follows:

```
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 = { songName: '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 });
```

A terminal window is open in the foreground, showing the output of running the script:

```
logu@logu-HP-Notebook: ~/Documents/Uki/mongodb-nodejs-exercises
logu@logu-HP-Notebook:~/Documents/Uki/mongodb-nodejs-exercises$ nodemon 7.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node 7.js`
(node:8149) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
1 document deleted
[nodemon] clean exit - waiting for changes before restart
```

8) Add new song which is your favourite.



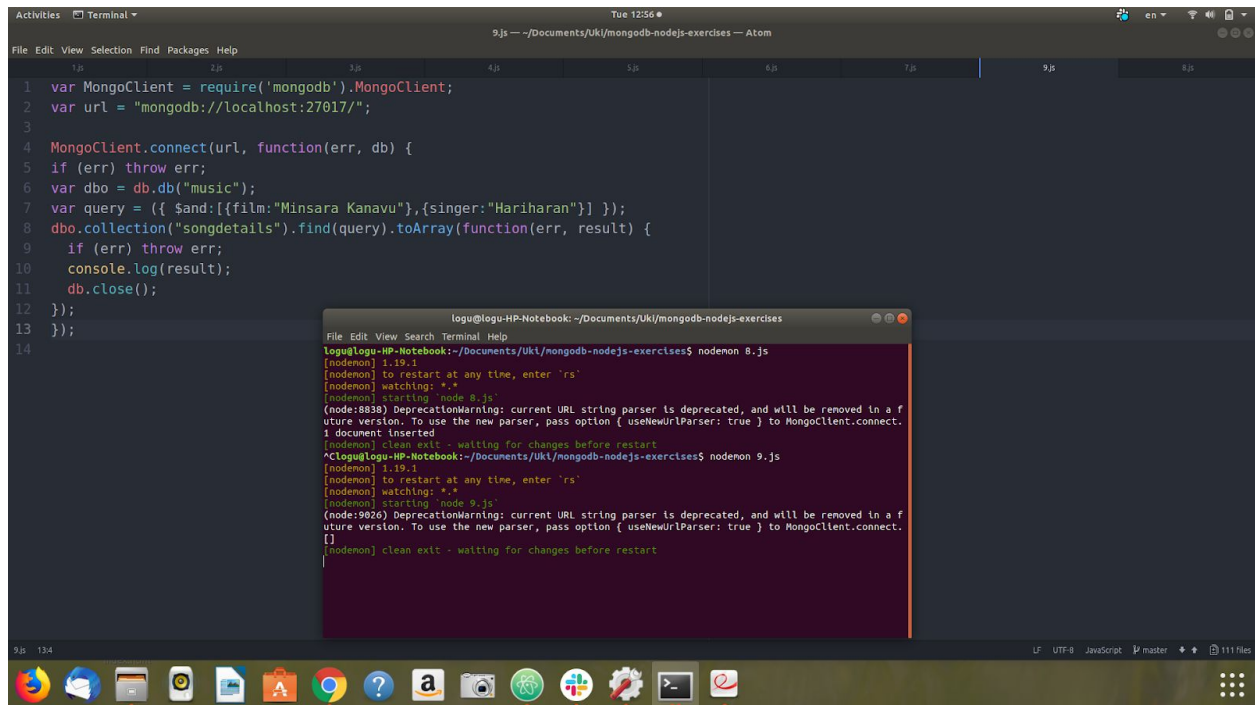
The screenshot shows a terminal window with a dark background. The top bar indicates the time is 12:49 on Tuesday. The terminal title is "8.js - ~/Documents/Uki/mongodb-nodejs-exercises - Atom". The code in the editor is as follows:

```
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 myobj = { songName: 'Neethane Neethane ', film: 'Marshall', musicDirector: 'A.R.Rahman', singer: 'A.R.Rahman' };
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 });
```

A terminal window is open in the foreground, showing the output of running the script:

```
logu@logu-HP-Notebook: ~/Documents/Uki/mongodb-nodejs-exercises
logu@logu-HP-Notebook:~/Documents/Uki/mongodb-nodejs-exercises$ nodemon 8.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node 8.js`
(node:8838) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
1 document inserted
[nodemon] clean exit - waiting for changes before restart
```

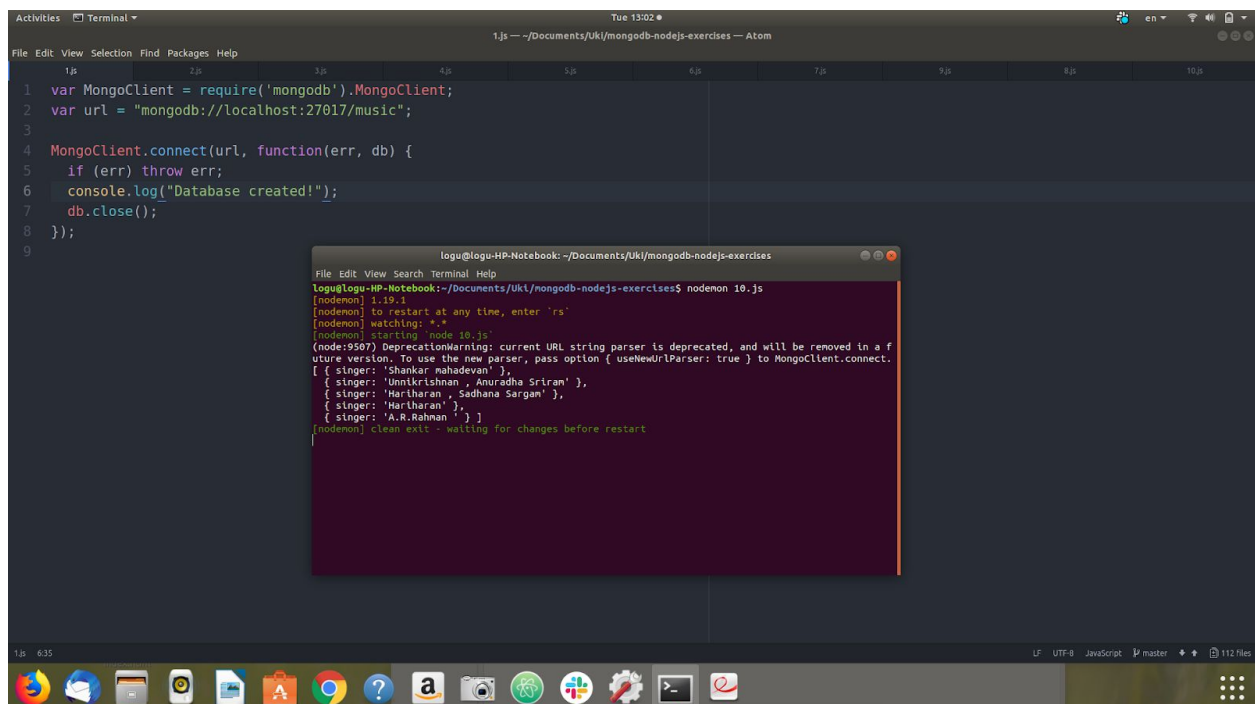
9) List Songs sung by Hariharan from Minsara kanavu film.



```
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:[{film:"Minsara Kanavu"},{singer:"Hariharan"}] });
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
```

```
logu@logu-HP-Notebook: ~/Documents/Uki/mongodb-nodejs-exercises
logu@logu-HP-Notebook:~/Documents/Uki/mongodb-nodejs-exercises$ nodemon 8.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node 8.js'
(node:8838) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
1 document inserted
[nodemon] clean exit - waiting for changes before restart
^Clogu@logu-HP-Notebook:~/Documents/Uki/mongodb-nodejs-exercises$ nodemon 9.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node 9.js'
(node:9026) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[]
[nodemon] clean exit - waiting for changes before restart
```

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



```
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
```

```
logu@logu-HP-Notebook: ~/Documents/Uki/mongodb-nodejs-exercises
logu@logu-HP-Notebook:~/Documents/Uki/mongodb-nodejs-exercises$ nodemon 10.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node 10.js'
(node:9507) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[ { singer: 'Shankar mahadevan' },
  { singer: 'Umkirishnan , Anuradha Sritan' },
  { singer: 'Hartharan , Sadhana Sargan' },
  { singer: 'Hartharan' },
  { singer: 'A.R.Rahman' } ]
[nodemon] clean exit - waiting for changes before restart
```