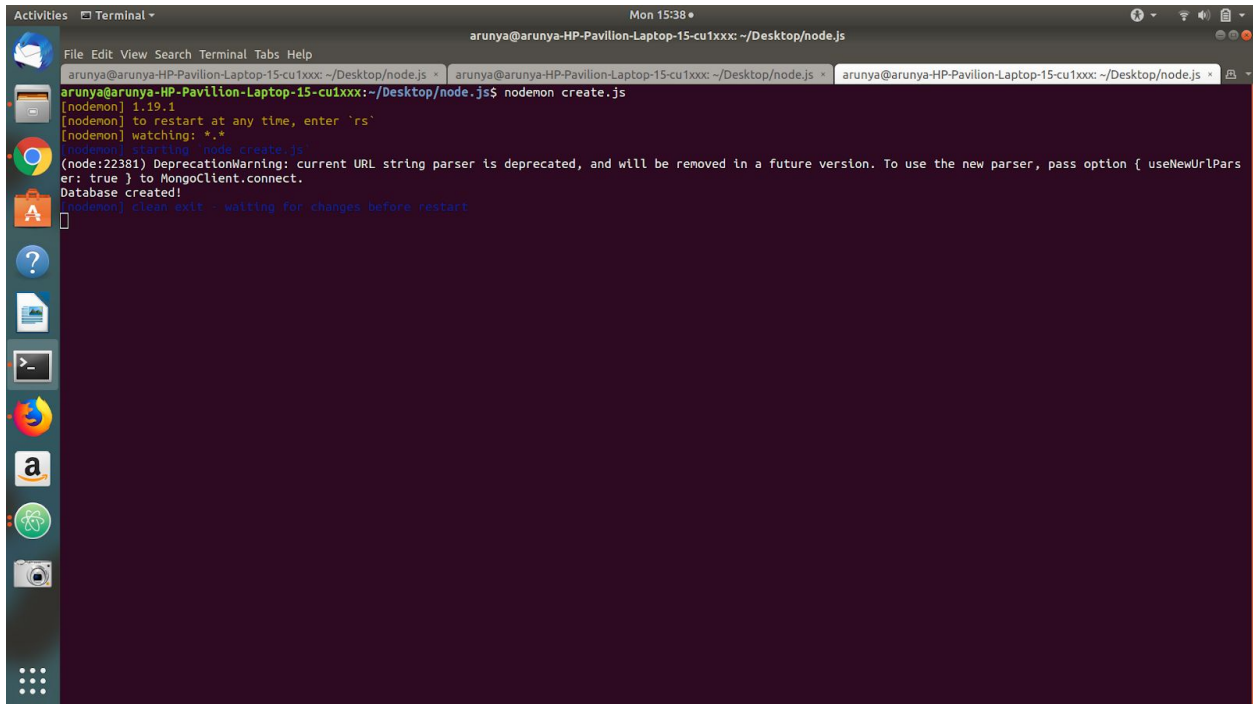
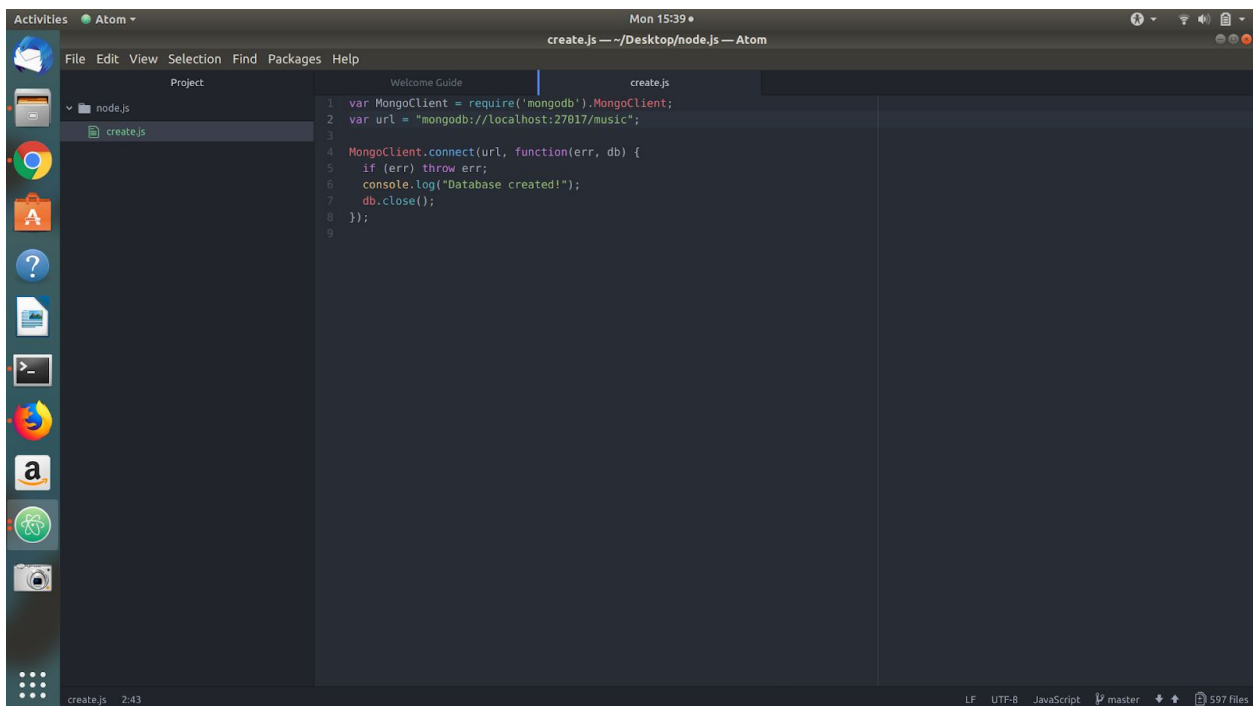


Q1-

1) Create a Database called music.



```
arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node.js
arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx:~/Desktop/node.js$ nodemon create.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node create.js'
(node:22381) 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!
[nodemon] clean exit - waiting for changes before restart
```



```
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
```

Q2- Create a collection called songdetails.

```
Mon 16:04
arunya@arunya-HP-Pavillon-Laptop-15-cu1xxx: ~/Desktop/node.js

File Edit View Search Terminal Tabs Help
arunya@arunya-HP-Pavillon-Laptop-15-cu1xxx: ~/Desktop/node.js
arunya@arunya-HP-Pavillon-Laptop-15-cu1xxx: ~/Desktop/node.js
arunya@arunya-HP-Pavillon-Laptop-15-cu1xxx: ~/Desktop/node.js

[nodemon] watching: *.*
[nodemon] starting 'node createcollection.js'
(node:22630) 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!
[nodemon] clean exit - waiting for changes before restart
^Carunya@arunya-HP-Pavillon-Laptop-15-cu1xxx:~/Desktop/node.js$ nodemon create.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node create.js'
(node:22808) 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!
[nodemon] clean exit - waiting for changes before restart
^Carunya@arunya-HP-Pavillon-Laptop-15-cu1xxx:~/Desktop/node.js$ nodemon createcollection.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node createcollection.js'
(node:22914) 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!
[nodemon] clean exit - waiting for changes before restart
^Carunya@arunya-HP-Pavillon-Laptop-15-cu1xxx:~/Desktop/node.js$ nodemon create.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node create.js'
(node:22978) 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!
[nodemon] clean exit - waiting for changes before restart
^Carunya@arunya-HP-Pavillon-Laptop-15-cu1xxx:~/Desktop/node.js$ nodemon createcollection.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node createcollection.js'
(node:23001) 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!
[nodemon] clean exit - waiting for changes before restart
```

```
Mon 16:04
createcollection.js — ~/Desktop/node.js — Atom

File Edit View Selection Find Packages Help
Project Welcome Guide create.js createcollection.js
node.js
  create.js
  createcollection.js

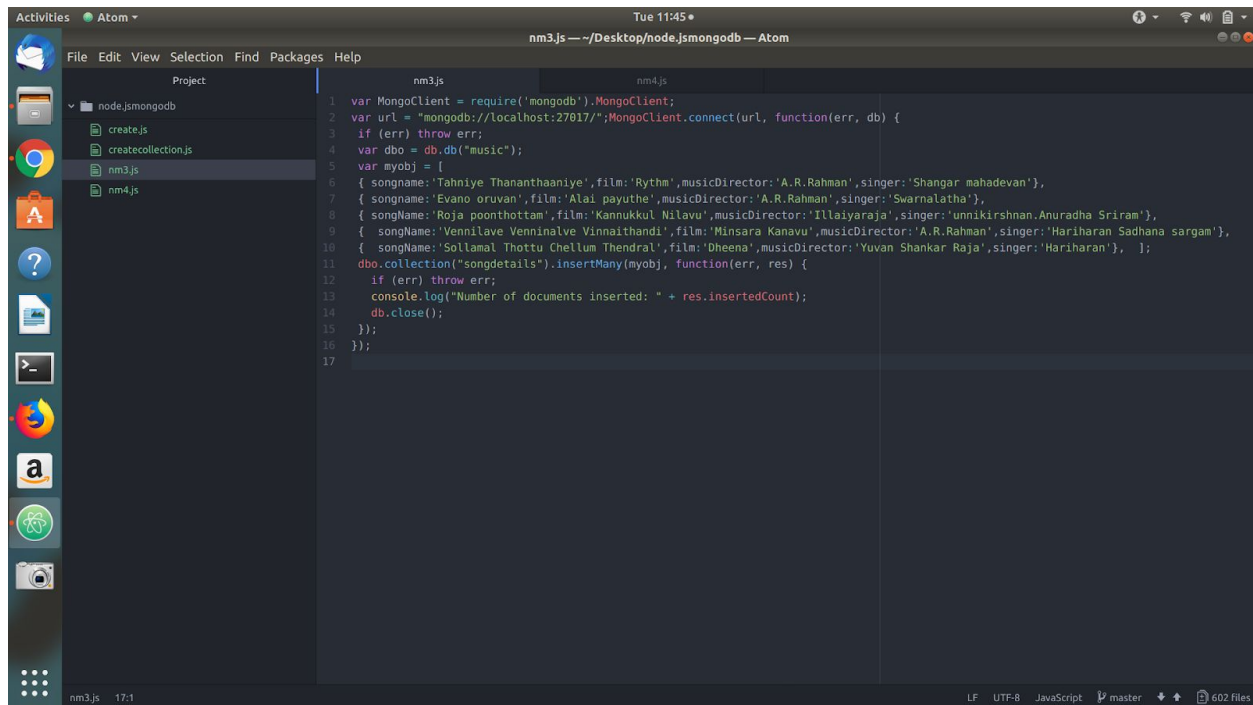
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("songdetails");
7   //Create a collection name "customers":
8   dbo.createCollection("customers", function(err, res) {
9     if (err) throw err;
10    console.log("Collection created!");
11    db.close();
12  });
13 });
14

createcollection.js 6:31 LF UTF-8 JavaScript master 598 Files
```

Q3- Cr

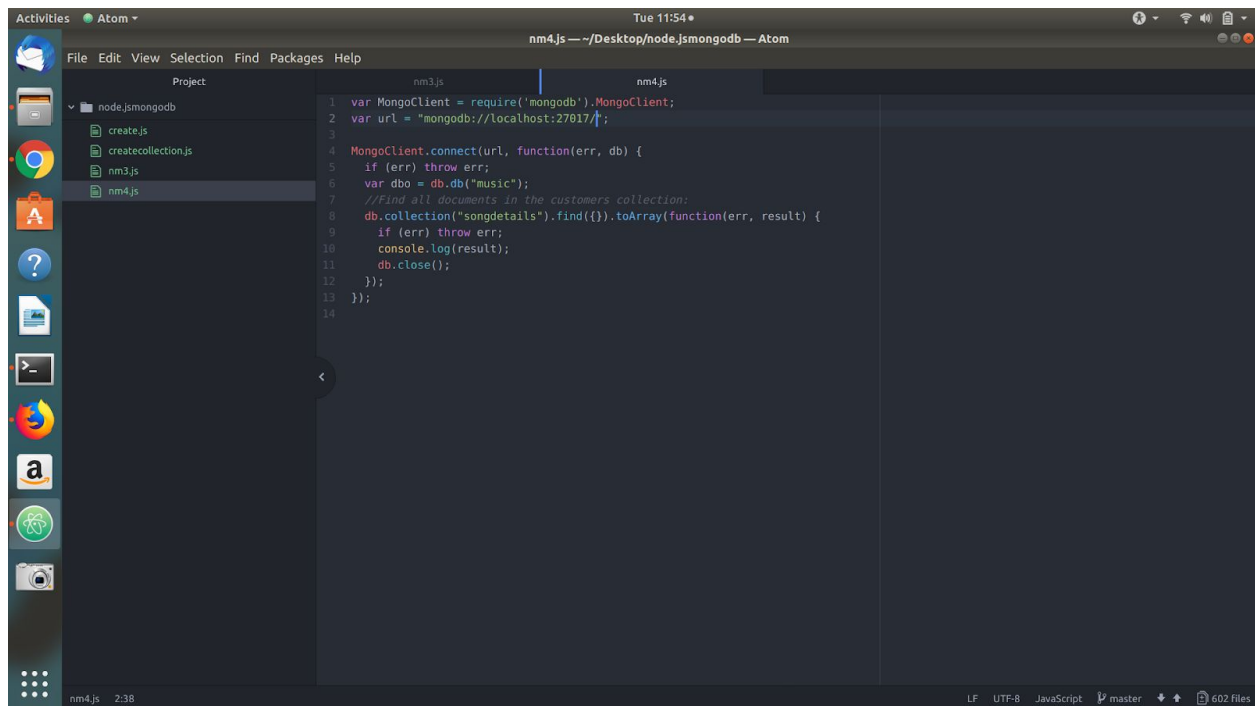
```
arunya@arunya-HP-Pavilion-Laptop-15-cw1xxx:~/Desktop/node.jsmongodb$ nodemon nm3.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node nm3.js`
(node:8030) DeprecationWarning: current URL string parser is deprecated, and will be removed in 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
```

reate the above 5 song documents.

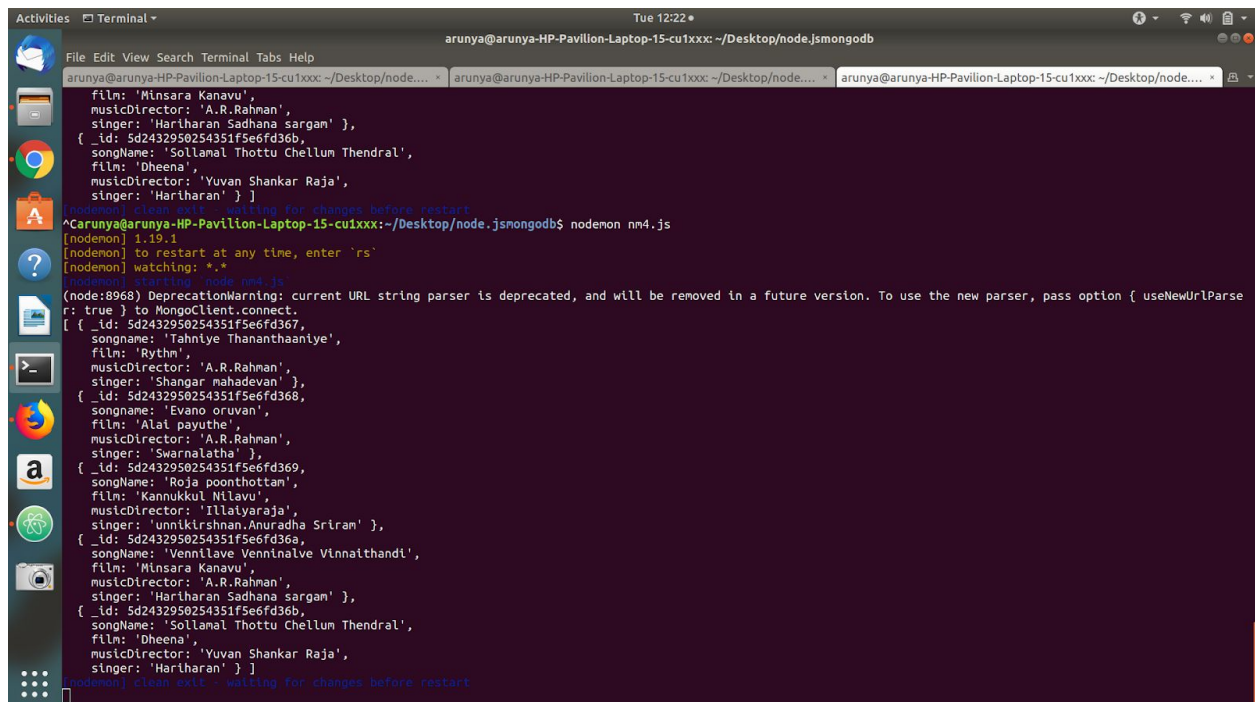


```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";MongoClient.connect(url, function(err, db) {
3   if (err) throw err;
4   var dbo = db.db("music");
5   var myobj = [
6     { songname:'Tahniye Thananthaaniye',film:'Rythm',musicDirector:'A.R.Rahman',singer:'Shangar mahadevan'},
7     { songname:'Evano oruvan',film:'Alai payuthe',musicDirector:'A.R.Rahman',singer:'Swarnalatha'},
8     { songName:'Roja poonthottam',film:'Kannukkul Nilavu',musicDirector:'Ilaiyaraaja',singer:'unnikirshnan,Anuradha Sriram'},
9     { songName:'Vennilave Venninalve Vinnaitthandi',film:'Minsara Kanavu',musicDirector:'A.R.Rahman',singer:'Hariharan Sadhana sargam'},
10    { songName:'Sollamal Thottu Chellum Thendral',film:'Dheena',musicDirector:'Yuvan Shankar Raja',singer:'Hariharan'},  ];
11    dbo.collection("songdetails").insertMany(myobj, function(err, res) {
12      if (err) throw err;
13      console.log("Number of documents inserted: " + res.insertedCount);
14      db.close();
15    });
16  });
17 }
```

4) List all documents created.

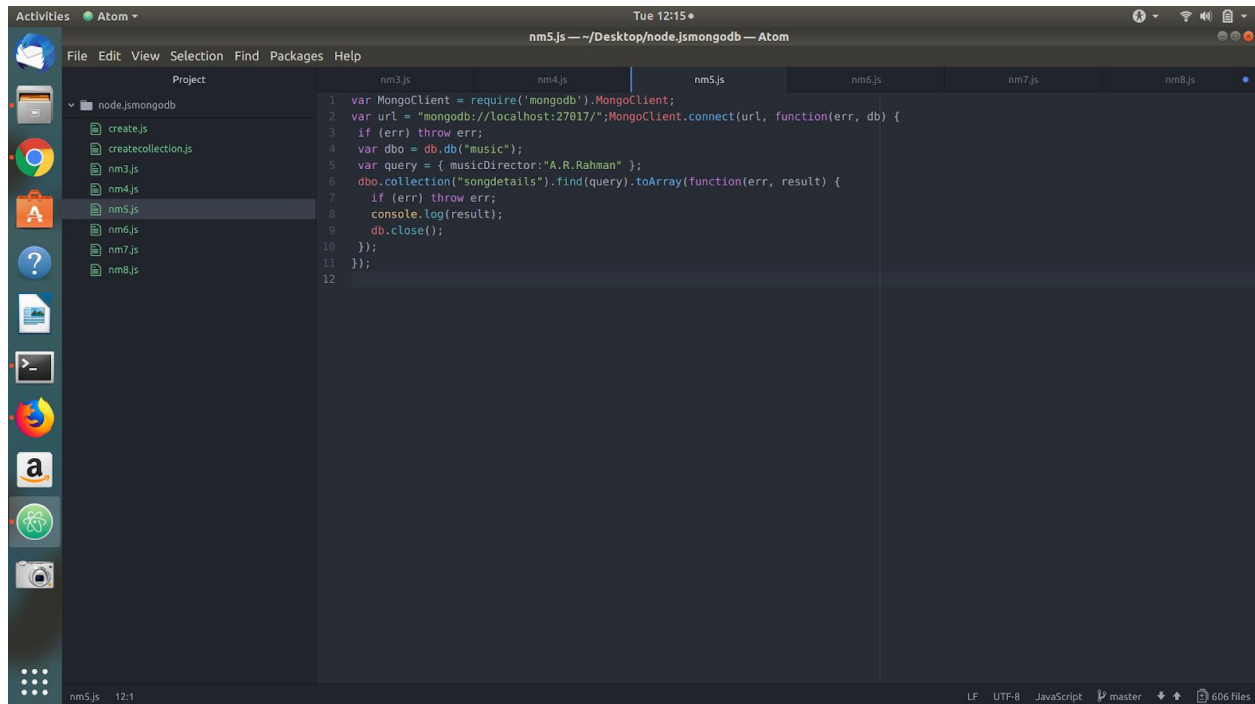


```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   //Find all documents in the customers collection:
8   db.collection("songdetails").find({}).toArray(function(err, result) {
9     if (err) throw err;
10    console.log(result);
11    db.close();
12  });
13 });
14
```

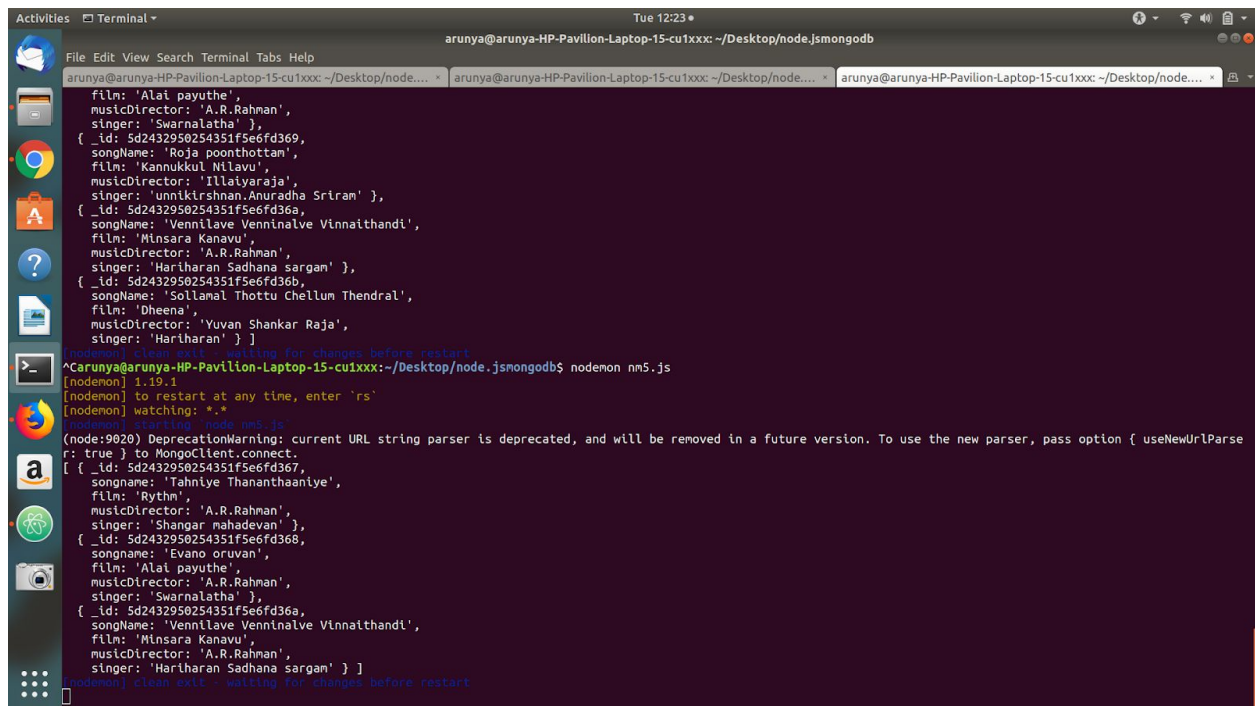


```
arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node.jsmongodb
film: 'Minsara Kanavu',
musicDirector: 'A.R.Rahman',
singer: 'Hartharan Sadhana sargan' },
{ _id: 5d2432950254351f5e6fd36b,
  songName: 'Sollamal Thottu Chellum Thendral',
  film: 'Dheena',
  musicDirector: 'Yuvan Shankar Raja',
  singer: 'Hartharan' } ]
[Arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx:~/Desktop/node.jsmongodb$ nodeemon nm4.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting node nm4.js
(node:8968) 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: 5d2432950254351f5e6fd367,
  songName: 'Tahniye Thananthaantye',
  film: 'Rytm',
  musicDirector: 'A.R.Rahman',
  singer: 'Shangar mahadevan' },
  { _id: 5d2432950254351f5e6fd368,
    songName: 'Evano oruvan',
    film: 'Alai payuthe',
    musicDirector: 'A.R.Rahman',
    singer: 'Swarnalatha' },
  { _id: 5d2432950254351f5e6fd369,
    songName: 'Raja poonthottan',
    film: 'Kannukkul Nilavu',
    musicDirector: 'Illaiyaraaja',
    singer: 'unnikrishnan.Anuradha Sriran' },
  { _id: 5d2432950254351f5e6fd36a,
    songName: 'Vennilave Vennilave Vinnaitthandi',
    film: 'Minsara Kanavu',
    musicDirector: 'A.R.Rahman',
    singer: 'Hartharan Sadhana sargan' },
  { _id: 5d2432950254351f5e6fd36b,
    songName: 'Sollamal Thottu Chellum Thendral',
    film: 'Dheena',
    musicDirector: 'Yuvan Shankar Raja',
    singer: 'Hartharan' } ]
[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/";MongoClient.connect(url, function(err, db) {
3   if (err) throw err;
4   var dbo = db.db("music");
5   var query = { musicDirector:"A.R.Rahman" };
6   dbo.collection("songdetails").find(query).toArray(function(err, result) {
7     if (err) throw err;
8     console.log(result);
9     db.close();
10  });
11 });
12
```



```
arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node.jsmongodb
film: 'Alai payuthe',
musicDirector: 'A.R.Rahman',
singer: 'Swarnalatha' },
{ _id: 5d2432950254351f5e6fd369,
  songName: 'Raja poonthottam',
  film: 'Kannukkul Nilavu',
  musicDirector: 'Illaiyaraaja',
  singer: 'Unnikrishnan,Anuradha Sriram' },
{ _id: 5d2432950254351f5e6fd36a,
  songName: 'Vennilave Venninalve Vinnaithandi',
  film: 'Minsara Kanavu',
  musicDirector: 'A.R.Rahman',
  singer: 'Haritharan Sadhana sargan' },
{ _id: 5d2432950254351f5e6fd36b,
  songName: 'Sollanal Thottu Chellum Thendral',
  film: 'Dheena',
  musicDirector: 'Yuvan Shankar Raja',
  singer: 'Haritharan' } ]
(node:9820) 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: 5d2432950254351f5e6fd367,
  songName: 'Tahniye Thananthaaniye',
  film: 'Rythm',
  musicDirector: 'A.R.Rahman',
  singer: 'Shangar mahadevan' },
  { _id: 5d2432950254351f5e6fd368,
    songName: 'Evano oruvan',
    film: 'Alai payuthe',
    musicDirector: 'A.R.Rahman',
    singer: 'Swarnalatha' },
  { _id: 5d2432950254351f5e6fd36a,
    songName: 'Vennilave Venninalve Vinnaithandi',
    film: 'Minsara Kanavu',
    musicDirector: 'A.R.Rahman',
    singer: 'Haritharan Sadhana sargan' } ]
[nodemon] clean exit - waiting for changes before restart
```

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

Activities Atom Tue 12:02 nm7.js — ~/Desktop/node.jsmongodb — Atom

File Edit View Selection Find Packages Help

Project

- node.jsmongodb
 - create.js
 - createcollection.js
 - nm3.js
 - nm4.js
 - nm5.js
 - nm7.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 = { songName: 'Sollamal Thottu Chellum Thendral', film: 'Dheena', musicDirector: 'Yuvan Shankar Raja', singer: 'Hariharan' };
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
```

nm7.js 7:130 LF UTF-8 JavaScript master 604 Files

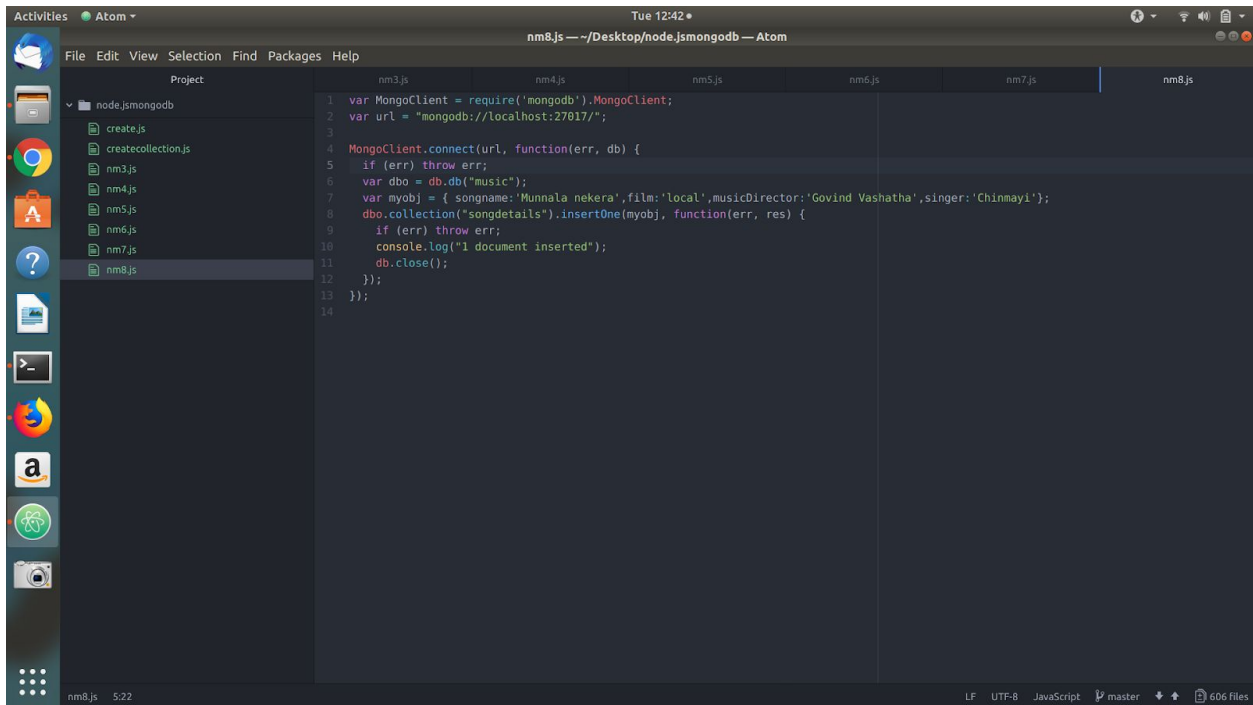
Activities Terminal Tue 12:34 arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node.jsmongodb

File Edit View Search Terminal Tabs Help

```
arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node... arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node... arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node...
[nodemon] watching: *.*
^C
/home/arunya/Desktop/node.jsmongodb/nm6.js:7
var query = { $and:{musicDirector:"A.R.Rahman"},{singer:"unnikrishnan"} };
              ^
SyntaxError: Unexpected token {
    at createScript (vm.js:80:10)
    at Object.runInThisContext (vm.js:139:10)
    at Module._compile (module.js:616:28)
    at Object.Module._extensions..js (module.js:663:10)
    at Module.load (module.js:565:32)
    at tryModuleLoad (module.js:505:12)
    at Function.Module._load (module.js:497:3)
    at Function.Module.runMain (module.js:693:10)
    at startup (bootstrap_node.js:188:16)
    at bootstrap_node.js:609:3
[nodemon] app crashed - waiting for file changes before starting...
[nodemon] restarting due to changes...
[nodemon] starting node nm6.js
(node:9326) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[]
[nodemon] clean exit - waiting for changes before restart
^Carunya@arunya-HP-Pavilion-Laptop-15-cu1xxx:~/Desktop/node.jsmongodb$ nodemon nm6.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting node nm6.js
(node:9350) 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
^Carunya@arunya-HP-Pavilion-Laptop-15-cu1xxx:~/Desktop/node.jsmongodb$ nodemon nm7.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting node nm7.js
(node:9396) 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.

```
1 document inserted
[nodemon] clean exit - waiting for changes before restart
^Carunya@arunya-HP-Pavilion-Laptop-15-cu1xxx:~/Desktop/node.jsmongodb$ nodemon nm8.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node nm8.js`
(node:9683) 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.


```
arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node.jsmongodb
{ singer: 'unnikrishnan.Anuradha Sritam' },
{ singer: 'Hartharan Sadhana sargam' },
{ singer: 'Chinnmayi' },
{ singer: 'Chinnmayi' },
{ singer: 'Chinnmayi' },
{ singer: 'Chinnmayi' },
{ singer: 'Chinnmayi' } ]
[nodemon] clean exit - waiting for changes before restart
[nodemon] restarting due to changes...
[nodemon] starting `node nm9.js`
(node:9917) 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: 'Shangar mahadevan' },
  { singer: 'Swarnalatha' },
  { singer: 'unnikrishnan.Anuradha Sritam' },
  { singer: 'Hartharan Sadhana sargam' },
  { singer: 'Chinnmayi' },
  { singer: 'Chinnmayi' },
  { singer: 'Chinnmayi' },
  { singer: 'Chinnmayi' } ]
[nodemon] clean exit - waiting for changes before restart
[nodemon] restarting due to changes...
[nodemon] starting `node nm9.js`
(node:9938) 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: 'Shangar mahadevan' },
  { singer: 'Swarnalatha' },
  { singer: 'unnikrishnan.Anuradha Sritam' },
  { singer: 'Hartharan Sadhana sargam' },
  { singer: 'Chinnmayi' },
  { singer: 'Chinnmayi' },
  { singer: 'Chinnmayi' },
  { singer: 'Chinnmayi' } ]
[nodemon] clean exit - waiting for changes before restart
^Carunya@arunya-HP-Pavilion-Laptop-15-cu1xxx:~/Desktop/node.jsmongodb$ nodemon nm10.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node nm10.js`
(node:9967) 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
```

```
nm10.js — ~/Desktop/node.jsmongodb — Atom
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";MongoClient.connect(url, function(err, db) {
3   if (err) throw err;
4   var dbo = db.db("music");
5   var query = ({ $and:[{musicDirector:"A.R.Rahman"},{singer:"unnikrishnan"}] });
6   dbo.collection("songdetails").find(query).toArray(function(err, result) {
7     if (err) throw err;
8     console.log(result);
9     db.close();
10  });
11 });
12
```

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

```
Activities Terminal Tue 12:44*
arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node.jsmongodb

arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node.jsmongodb
arunya@arunya-HP-Pavilion-Laptop-15-cu1xxx: ~/Desktop/node.jsmongodb
(node:9659) 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
(node:9659) clean exit - waiting for changes before restart
^Carunya@arunya-HP-Pavilion-Laptop-15-cu1xxx:~/Desktop/node.jsmongodb$ nodemon nm8.js
(node:9659) 1.19.1
(node:9659) to restart at any time, enter 'rs'
(node:9659) watching: *.*
(node:9659) starting node nm8.js
(node:9683) 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
(node:9683) clean exit - waiting for changes before restart
(node:9683) restarting due to changes...
(node:9683) starting node nm8.js
(node:9746) 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
(node:9746) clean exit - waiting for changes before restart
(node:9746) restarting due to changes...
(node:9746) starting node nm8.js
(node:9776) 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
(node:9776) clean exit - waiting for changes before restart
^Carunya@arunya-HP-Pavilion-Laptop-15-cu1xxx:~/Desktop/node.jsmongodb$ nodemon nm9.js
(node:9776) 1.19.1
(node:9776) to restart at any time, enter 'rs'
(node:9776) watching: *.*
(node:9776) starting node nm9.js
(node:9805) 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: 'Shangar mahadevan' },
  { singer: 'Swarnalatha' },
  { singer: 'Ummikrishnan Anuradha Sritam' },
  { singer: 'Haritharan Sadhana sargan' },
  { singer: 'Chinnmayi' },
  { singer: 'Chinnmayi' },
  { singer: 'Chinnmayi' },
  { singer: 'Chinnmayi' } ]
(node:9805) clean exit - waiting for changes before restart
```

```
Activities Atom Tue 12:46*
Project -- ~/Desktop/node.jsmongodb -- Atom

File Edit View Selection Find Packages Help

Project
node.jsmongodb
├── create.js
├── createcollection.js
├── nm3.js
├── nm4.js
├── nm5.js
├── nm6.js
├── nm7.js
├── nm8.js
└── nm9.js

nm9.js
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";MongoClient.connect(url, function(err, db) {
3   if (err) throw err;
4   var dbo = db.db("music");
5   dbo.collection("songdetails").find({}, {projection: { _id: 0, singer: 1 }}).toArray(function(err, result) {
6     if (err) throw err;
7     console.log(result);
8     db.close();
9   });
10 });
11
```


4) List all documents created.

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

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

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

8) Add new song which is your favourite.

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

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