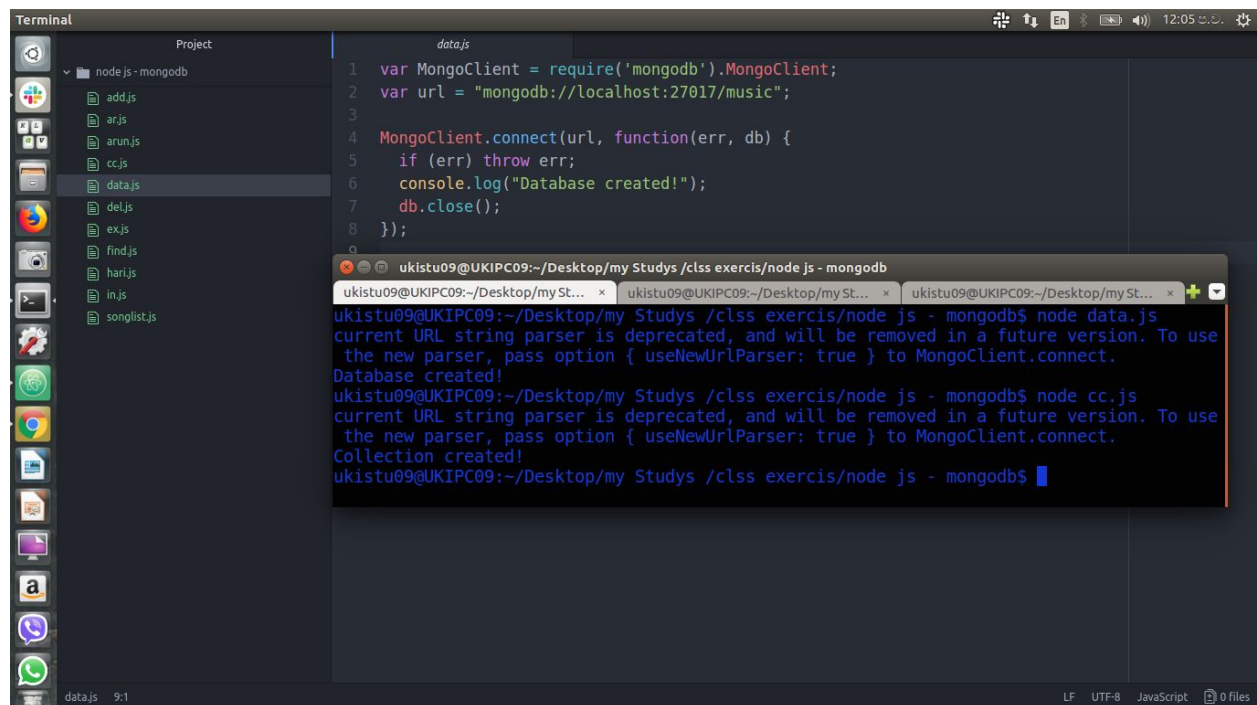


1) Create a Database called music.

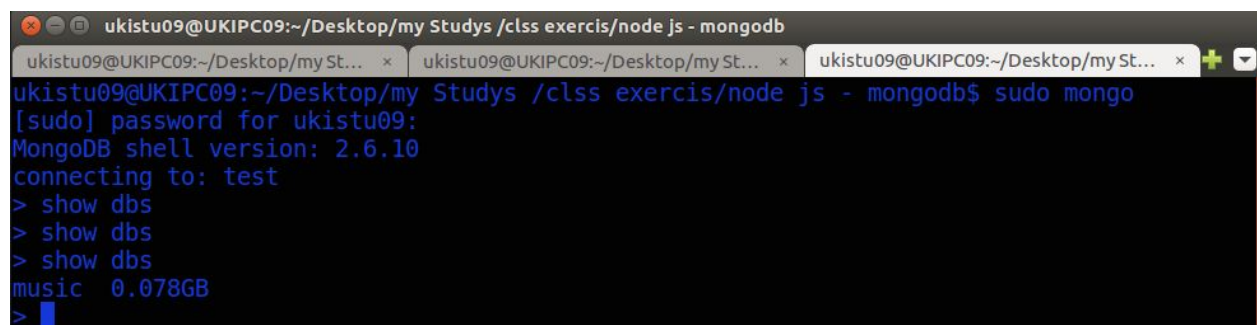


The screenshot shows a VS Code editor with a project named 'node js - mongodb'. The file explorer on the left lists several JavaScript files: add.js, ar.js, arun.js, cc.js, data.js, del.js, ex.js, find.js, hari.js, in.js, and songlist.js. The 'data.js' file is open in the editor, containing the following code:

```
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 });
```

Below the editor, a terminal window is open, showing the output of running the code. The terminal prompt is 'ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb\$'. The output shows a deprecation warning for the URL string parser, followed by 'Database created!'. The user then runs 'node cc.js', which shows another deprecation warning and 'Collection created!'. The prompt returns to 'ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb\$'.

2) Create a collection called songdetails.



The screenshot shows a terminal window with the MongoDB shell. The prompt is 'ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb\$'. The user enters 'sudo mongo', and the prompt changes to '[sudo] password for ukistu09:'. The user then enters the password, and the prompt changes to 'MongoDB shell version: 2.6.10'. The user enters 'connecting to: test', and the prompt changes to '>'. The user then enters 'show dbs' three times, and the output shows 'music 0.078GB'.

```
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    dbo.close();
11  });
12 });
```

ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb

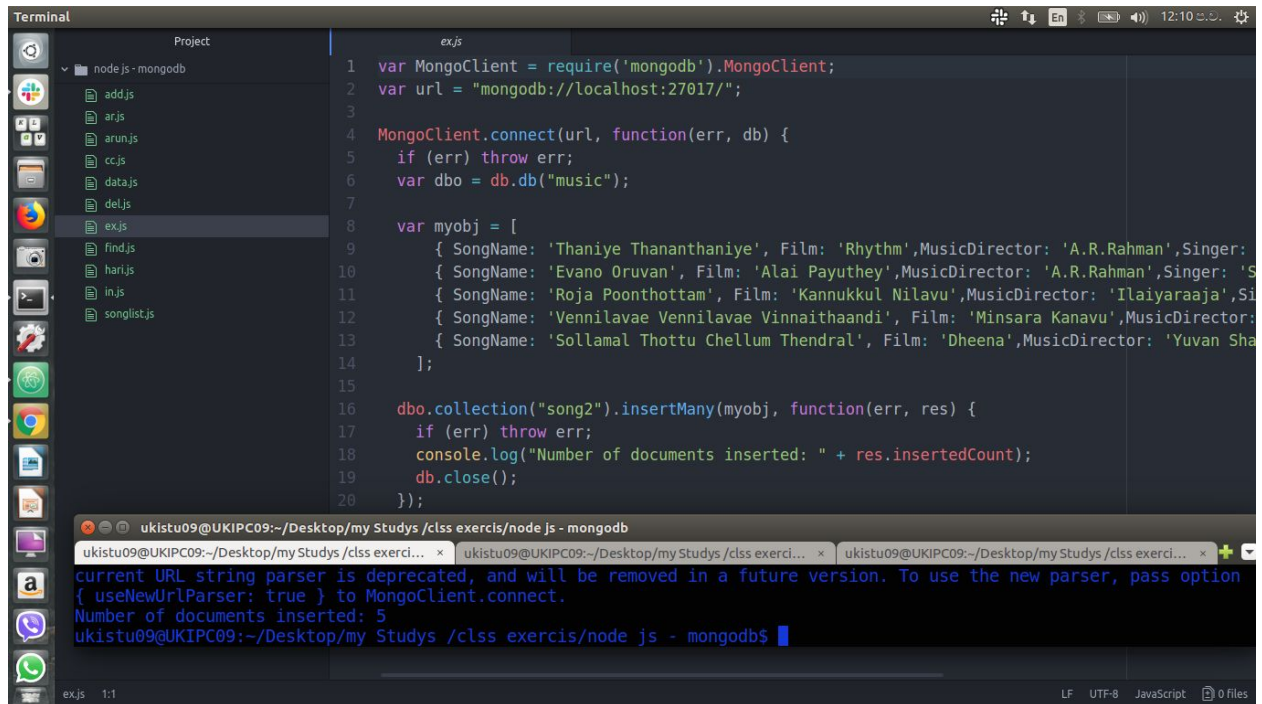
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb\$ node data.js  
current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.  
Database created!

ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb\$ node cc.js  
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!

ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb\$

```
> show dbs
> show dbs
music 0.078GB
> use music
switched to db music
> show collections
songdetails
system.indexes
>
```

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
8   var myobj = [
9     { SongName: 'Thaniye Thananthaniye', Film: 'Rhythm', MusicDirector: 'A.R.Rahman', Singer: 'Shankar Mahadevan' },
10    { SongName: 'Evano Oruvan', Film: 'Alai Payuthey', MusicDirector: 'A.R.Rahman', Singer: 'Swarnalatha' },
11    { SongName: 'Roja Poonthottam', Film: 'Kannukkul Nilavu', MusicDirector: 'Ilaiyaraaja', Singer: 'Unnikrishnan, Anuradha Sriram' },
12    { SongName: 'Vennilavae Vennilavae Vinnaihaandi', Film: 'Minsara Kanavu', MusicDirector: 'A.R.Rahman', Singer: 'Hariharan, Sadhana Sargam' },
13    { SongName: 'Sollamal Thottu Chellum Thendral', Film: 'Dheena', MusicDirector: 'Yuvan Shankar Raja', Singer: 'Hariharan' },
14  ];
15
16  dbo.collection("song2").insertMany(myobj, function(err, res) {
17    if (err) throw err;
18    console.log("Number of documents inserted: " + res.insertedCount);
19    db.close();
20  });
21
22  });
```

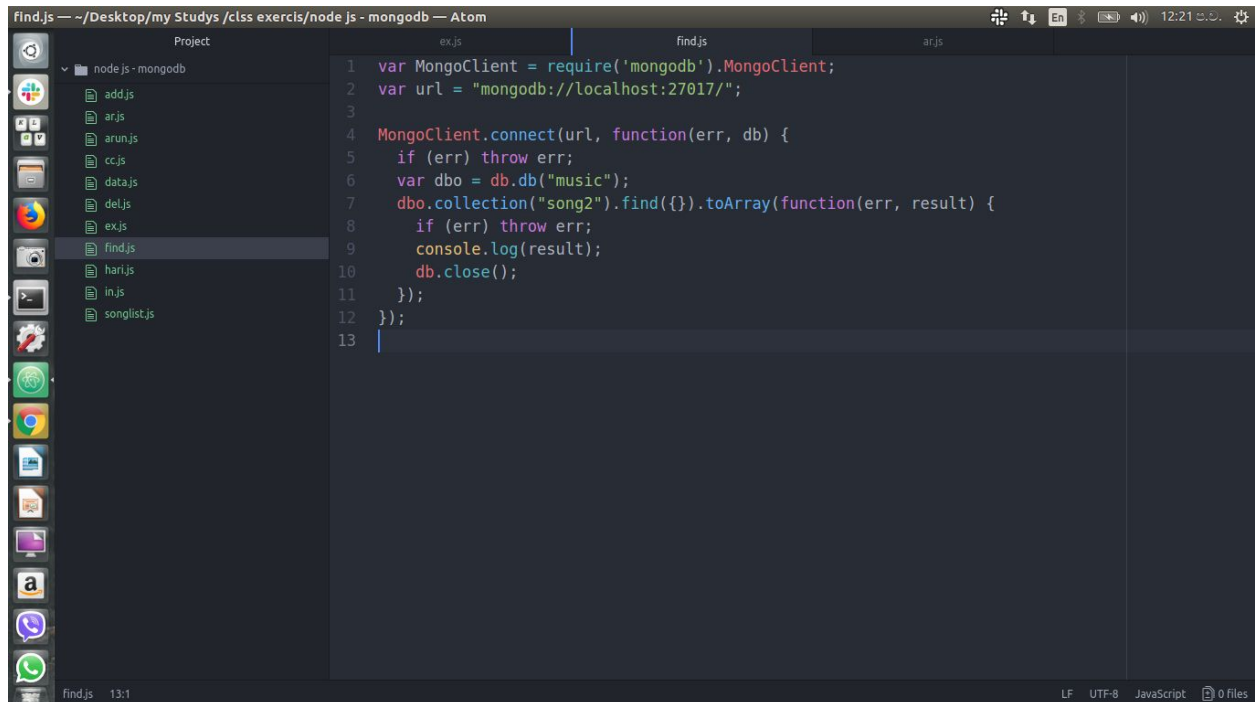
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb\$

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.

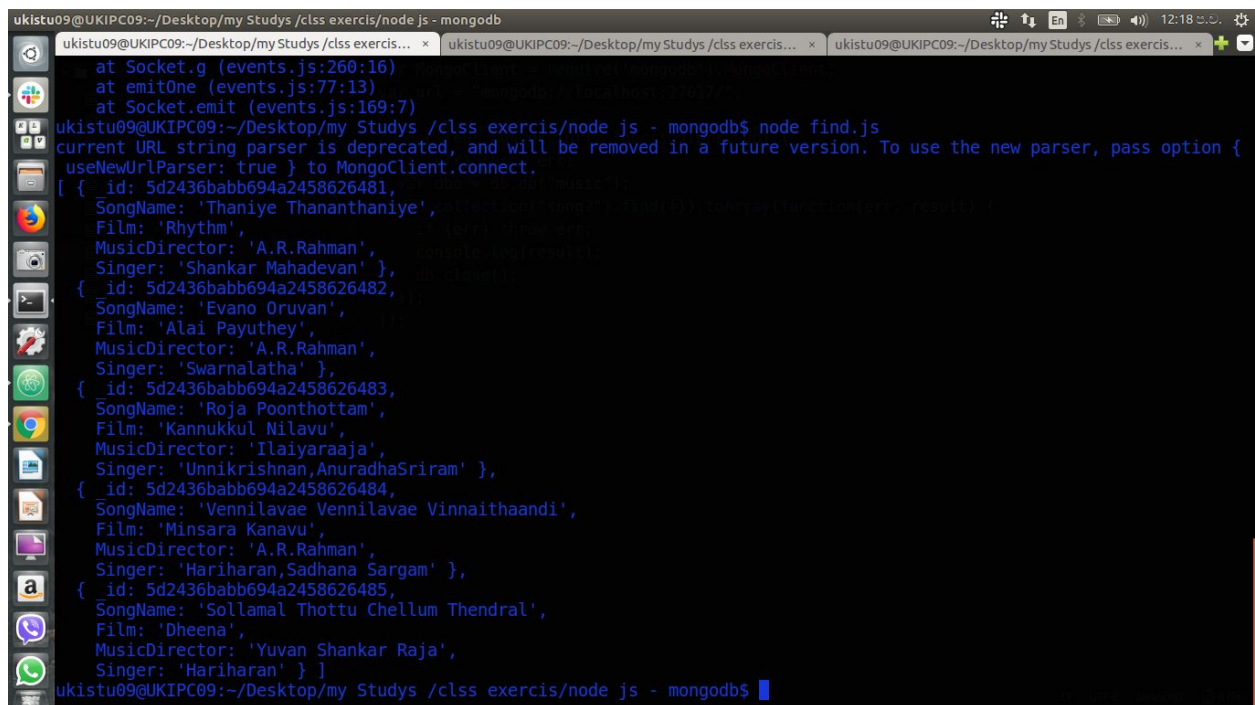
Number of documents inserted: 5

ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb\$

4) List all documents created.



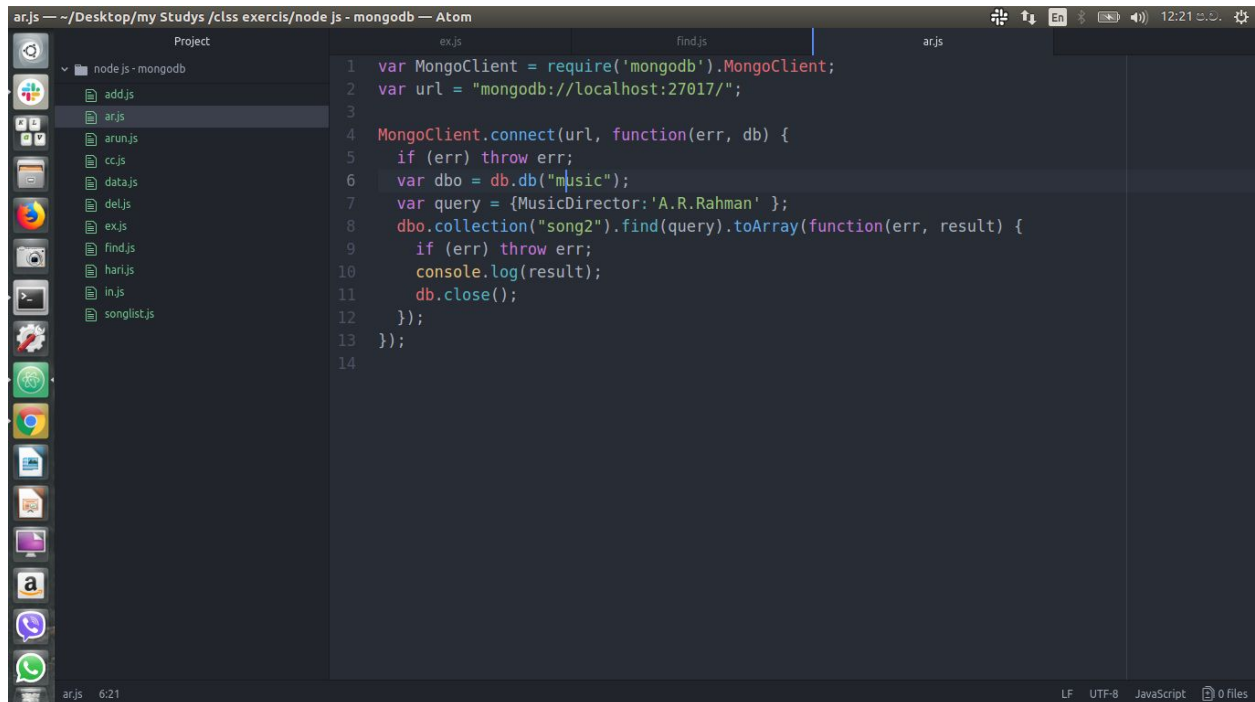
```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   dbo.collection("song2").find({}).toArray(function(err, result) {
8     if (err) throw err;
9     console.log(result);
10    db.close();
11  });
12 });
13
```



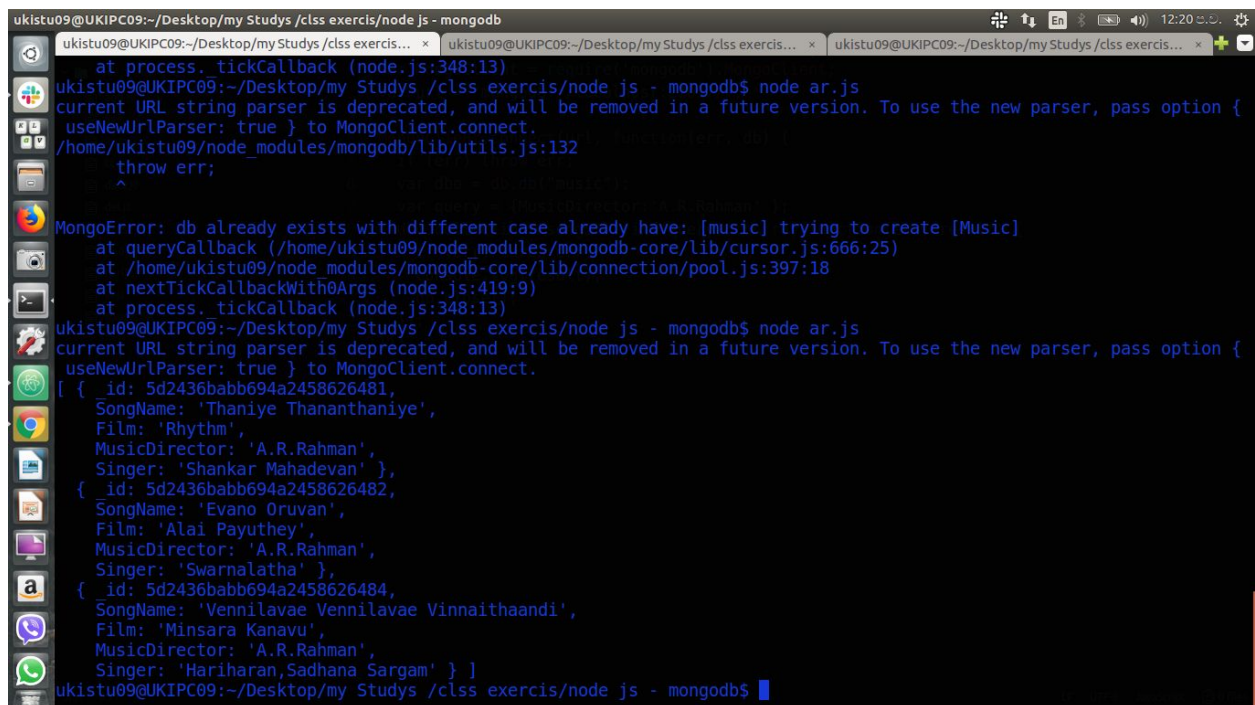
```
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis...
at Socket.g (events.js:260:16)
at emitOne (events.js:77:13)
at Socket.emit (events.js:169:7)
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb$ node find.js
current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option {
  useNewUrlParser: true } to MongoClient.connect.
[ { id: 5d2436babb694a2458626481,
  SongName: 'Thaniye Thananthaniye',
  Film: 'Rhythm',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Shankar Mahadevan' },
  { id: 5d2436babb694a2458626482,
  SongName: 'Evano Oruvan',
  Film: 'Alai Payuthey',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Swarnalatha' },
  { id: 5d2436babb694a2458626483,
  SongName: 'Roja Poonthottam',
  Film: 'Kannukkul Nilavu',
  MusicDirector: 'Ilaiyaraaja',
  Singer: 'Unnikrishnan,AnuradhaSriram' },
  { id: 5d2436babb694a2458626484,
  SongName: 'Vennilavae Vennilavae Vinnaitaandi',
  Film: 'Minsara Kanavu',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Hariharan,Sadhana Sargam' },
  { id: 5d2436babb694a2458626485,
  SongName: 'Sollamal Thottu Chellum Thendral',
  Film: 'Dheena',
  MusicDirector: 'Yuvan Shankar Raja',
  Singer: 'Hariharan' } ]
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb$
```

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





```
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 = {MusicDirector: 'A.R.Rahman' };
8   dbo.collection("song2").find(query).toArray(function(err, result) {
9     if (err) throw err;
10    console.log(result);
11    db.close();
12  });
13 });
14
```



```
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb$ node ar.js
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.
/home/ukistu09/node_modules/mongodb/lib/utils.js:132
    throw err;
    ^
MongoError: db already exists with different case already have: [music] trying to create [Music]
    at queryCallback (/home/ukistu09/node_modules/mongodb-core/lib/cursor.js:666:25)
    at /home/ukistu09/node_modules/mongodb-core/lib/connection/pool.js:397:18
    at nextTickCallbackWith0Args (node.js:419:9)
    at process._tickCallback (node.js:348:13)
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb$ node ar.js
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: 5d2436babb694a2458626481,
  SongName: 'Thaniye Thananthaniye',
  Film: 'Rhythm',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Shankar Mahadevan' },
  { _id: 5d2436babb694a2458626482,
  SongName: 'Evano Oruvan',
  Film: 'Alai Payuthey',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Swarnalatha' },
  { _id: 5d2436babb694a2458626484,
  SongName: 'Vennilavae Vennilavae Vinnaitaandi',
  Film: 'Minsara Kanavu',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Hariharan,Sadhana Sargam' } ]
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb$
```

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("song2").find(query).toArray(function(err, result) {
9     if (err) throw err;
10    console.log(result);
11    db.close();
12  });
13 });
```

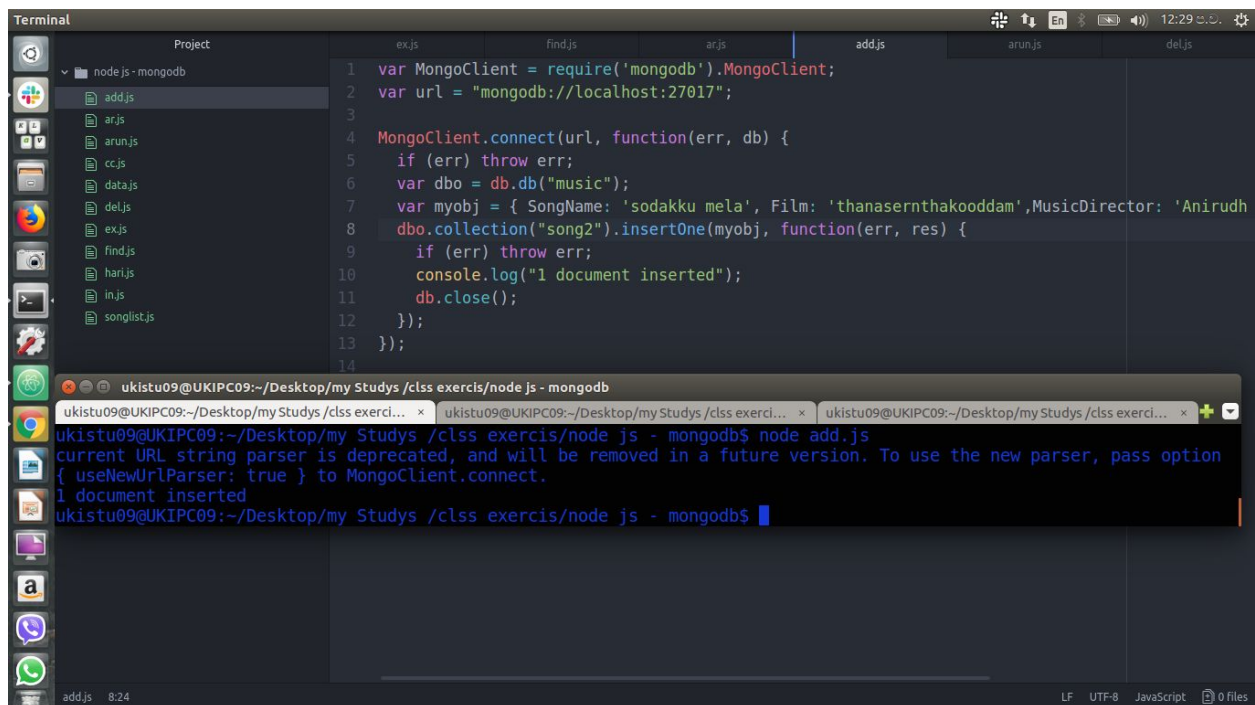
```
at emitOne (events.js:77:13)
at emit (events.js:169:7)
at /home/ukistu09/node_modules/mongodb-core/lib/connection/pool.js:557:14
at /home/ukistu09/node_modules/mongodb-core/lib/connection/connect.js:39:11
at callback (/home/ukistu09/node_modules/mongodb-core/lib/connection/connect.js:261:5)
at Socket.<anonymous> (/home/ukistu09/node_modules/mongodb-core/lib/connection/connect.js:286:7)
at Socket.g (events.js:260:16)
at emitOne (events.js:77:13)
at Socket.emit (events.js:169:7)
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb$ node arun.js
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.
[]
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb$
```

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

```
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', Film: 'Alai Payuthey', MusicDirector: 'A.R.Rahman' };
8   dbo.collection("song2").deleteOne(myquery, function(err, obj) {
9     if (err) throw err;
10    console.log("1 document deleted");
11    db.close();
12  });
13 });
14
```

```
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb$ node del.js
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
ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb$
```

8) Add new song which is your favourite.

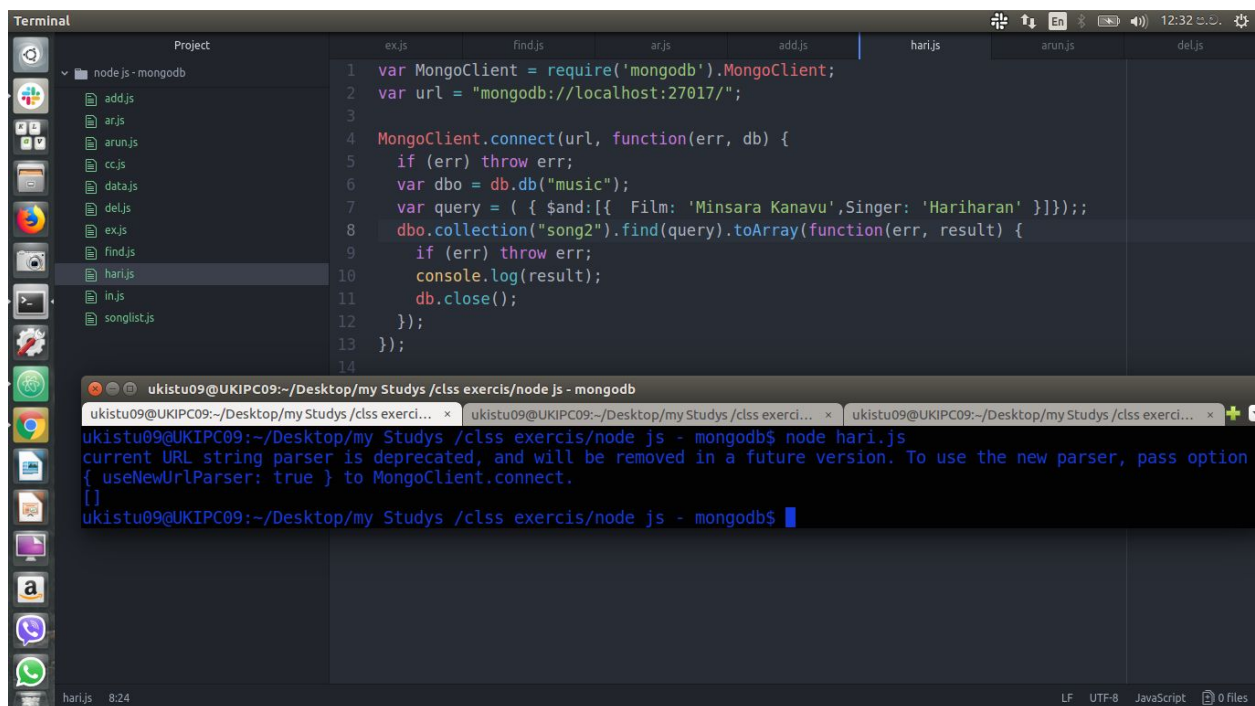


The screenshot shows the VS Code editor with a project named 'node js - mongodb'. The file 'add.js' is open, containing the following code:

```
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: 'sodakku mela', Film: 'thanaserthakooddam', MusicDirector: 'Anirudh' };
8   dbo.collection("song2").insertOne(myobj, function(err, res) {
9     if (err) throw err;
10    console.log("1 document inserted");
11    db.close();
12  });
13 });
```

The terminal window shows the command `node add.js` being executed, resulting in the output: `1 document inserted`. A warning message is also visible: `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.`

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



The screenshot shows the VS Code editor with the file 'hari.js' open, containing the following code:

```
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("song2").find(query).toArray(function(err, result) {
9     if (err) throw err;
10    console.log(result);
11    db.close();
12  });
13 });
```

The terminal window shows the command `node hari.js` being executed, resulting in the output: `[]`. The same warning message about the deprecated URL string parser is visible.

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

Terminal

Project

node.js - mongodb

- add.js
- ar.js
- arun.js
- cc.js
- data.js
- del.js
- ex.js
- find.js
- hari.js
- in.js
- songlist.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   dbo.collection("song2").find({}, { projection: { _id: 0, Singer: 1 } }).toArray(function(err, result) {
8     if (err) throw err;
9     console.log(result);
10    dbo.close();
11  });
12 });
13
```

ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb

ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb\$ node songlist.js

current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass { useNewUrlParser: true } to MongoClient.connect.

```
[ { Singer: 'Shankar Mahadevan' },
  { Singer: 'Unnikrishnan,AnuradhaSriram' },
  { Singer: 'Hariharan,Sadhana Sargam' },
  { Singer: 'Hariharan' },
  { Singer: 'Anthony Daasan' } ]
```

ukistu09@UKIPC09:~/Desktop/my Studys /clss exercis/node js - mongodb\$

songlist.js 7:24

LF UTF-8 JavaScript 0 files