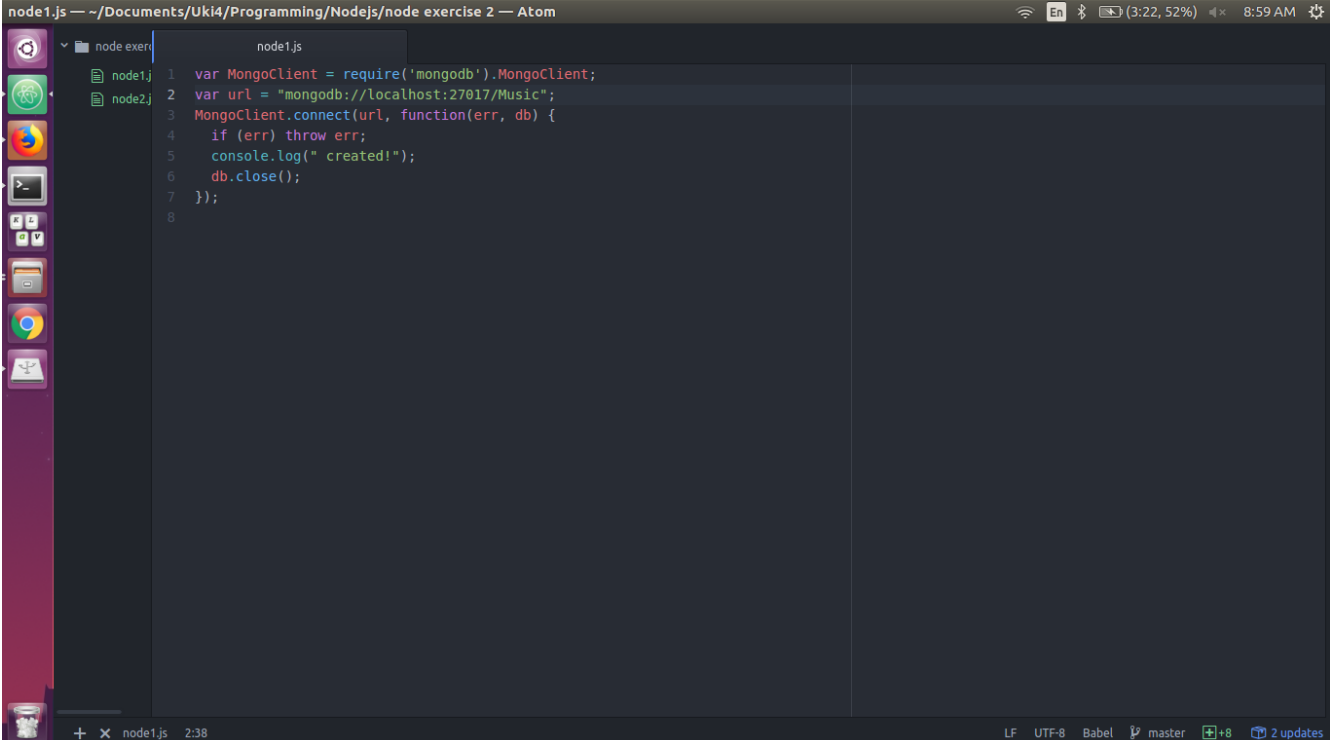


1) Create a Database called music.

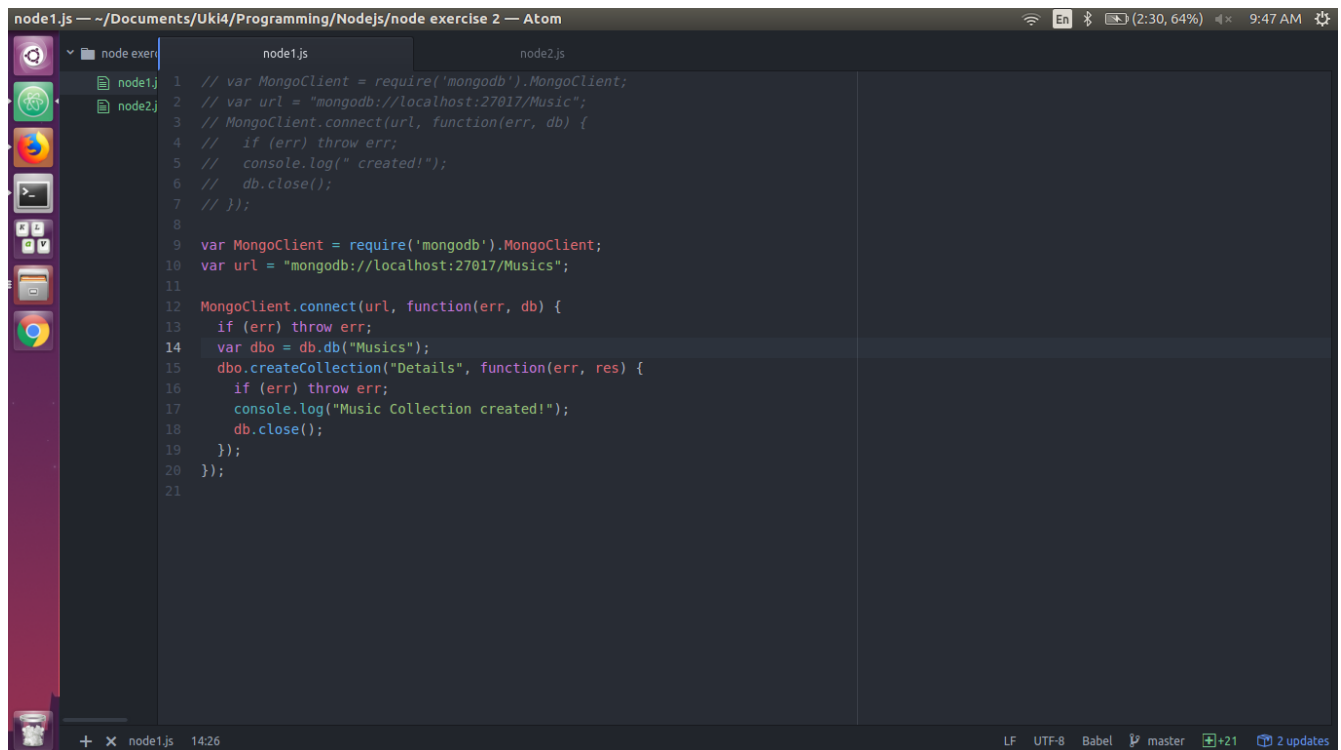


The screenshot shows the Atom code editor with a file named `node1.js` open. The file contains the following JavaScript code:

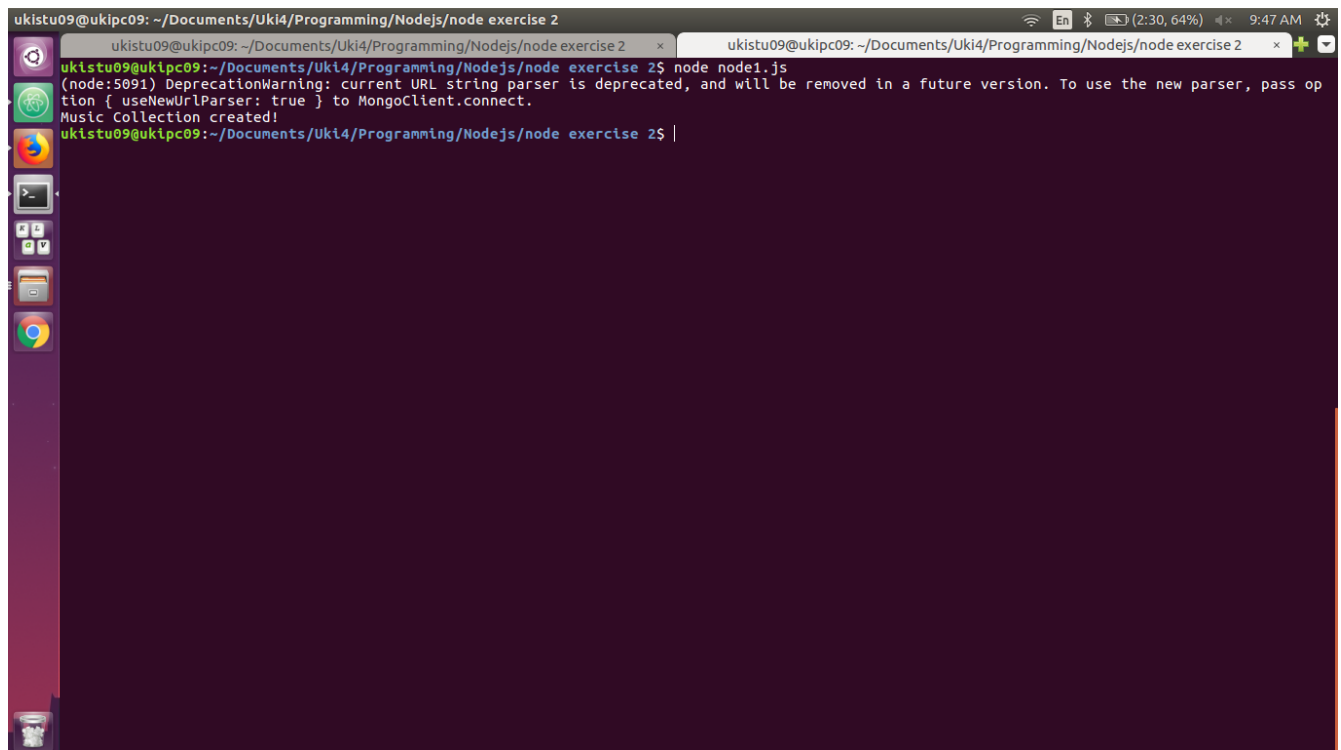
```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/Music";
3 MongoClient.connect(url, function(err, db) {
4   if (err) throw err;
5   console.log(" created!");
6   db.close();
7 });
8
```

The editor's status bar at the bottom indicates the file is `node1.js`, 2:38 lines, using the `LF` line ending, `UTF-8` encoding, and the `Babel` language mode. It also shows the current branch is `master` with `+8` changes and `2 updates`.

2) Create a collection called songdetails.



```
node1.js -- ~/Documents/Uki4/Programming/Nodejs/node exercise 2 — Atom
node1.js
1 // var MongoClient = require('mongodb').MongoClient;
2 // var url = "mongodb://localhost:27017/Music";
3 // MongoClient.connect(url, function(err, db) {
4 //   if (err) throw err;
5 //   console.log(" created!");
6 //   db.close();
7 // });
8
9 var MongoClient = require('mongodb').MongoClient;
10 var url = "mongodb://localhost:27017/Musics";
11
12 MongoClient.connect(url, function(err, db) {
13   if (err) throw err;
14   var dbo = db.db("Musics");
15   dbo.createCollection("Details", function(err, res) {
16     if (err) throw err;
17     console.log("Music Collection created!");
18     db.close();
19   });
20 });
21
node2.js
```



```
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2$ node node1.js
(node:5091) 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.
Music Collection created!
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2$
```

3) Create the above 5 song documents.

```
node1.js -- ~/Documents/Uki4/Programming/Nodejs/node exercise 2 — Atom
node1.js node2.js
node1.js
node2.js
7 // });
8
9 // var MongoClient = require('mongodb').MongoClient;
10 // var url = "mongodb://localhost:27017/Musics";
11 //
12 // MongoClient.connect(url, function(err, db) {
13 //   if (err) throw err;
14 //   var dbo = db.db("Musics");
15 //   dbo.createCollection("Details", function(err, res) {
16 //     if (err) throw err;
17 //     console.log("Music Collection created!");
18 //     db.close();
19 //   });
20 // });
21
22 var MongoClient = require('mongodb').MongoClient;
23 var url = "mongodb://localhost:27017/Musics";
24 MongoClient.connect(url, function(err, db) {
25   if (err) throw err;
26   var dbo = db.db("Musics");
27   var myobj = [
28     {SongName:"Evano Oruvan", Film:"Alai Payuthey", MusicDirector:"A.R.Rahman", Singer:"Swarnalatha"},
29     {SongName:"Roja Poonthoddam", Film:"Kannukkul Nilavu",MusicDirector:"Ilaiyaraaja", Singer:"Unnikrishnan,Anuradha"},
30     {SongName:"Vennilave Vennilave Vinaithaandi",Film:"Minsaara Kanavu", MusicDirector:"A.R.Rahman", Singer:"Hariharan,Sadhana Sargam"},
31     {SongName:"Sollamal Thoddu Chellum", Film:"Dheena", MusicDirector:"Yuven Shankar Raja",Singer:"Hariharan"}];
32   dbo.collection("Details").insertMany(myobj, function(err, res) {
33     if (err) throw err;
34     console.log("Number of documents inserted: " + res.insertedCount);
35     db.close();
36   });
37 });
38
+ x node1.js 32:26 LF UTF-8 Babel master +38 2 updates
```

```
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09:~/Documents/Uki4/Programming/Nodejs/node exercise 2$ node node1.js
(node:5178) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass op
tion { useNewUrlParser: true } to MongoClient.connect.
Number of documents inserted: 4
ukistu09@ukipc09:~/Documents/Uki4/Programming/Nodejs/node exercise 2$ |
```

4) List all documents created.

```
node1.js — ~/Documents/Uki4/Programming/Nodejs/node exercise 2 — Atom
node1.js
node2.js
21
22 // var MongoClient = require('mongodb').MongoClient;
23 // var url = "mongodb://localhost:27017/Musics";
24 // MongoClient.connect(url, function(err, db) {
25 //   if (err) throw err;
26 //   var dbo = db.db("Musics");
27 //   var myobj = [
28 //     {SongName:"Evano Oruvan", Film:"Alai Payuthey", MusicDirector:"A.R.Rahman", Singer:"Swarnalatha"},
29 //     {SongName:"Roja Poonthoddam", Film:"Kannukkul Nilavu", MusicDirector:"Illayaraaja", Singer:"Unnikrishnan,Anuradha"},
30 //     {SongName:"Vennilave Vennilave Vinaithaandi", Film:"Minsaara Kanavu", MusicDirector:"A.R.Rahman", Singer:"Hariharan,Sadhana Sargan"},
31 //     {SongName:"Sollamal Thoddu Chellum", Film:"Dheena", MusicDirector:"Yuven Shankar Raja", Singer:"Hariharan"}];
32 //   dbo.collection("Details").insertMany(myobj, function(err, res) {
33 //     if (err) throw err;
34 //     console.log("Number of documents inserted: " + res.insertedCount);
35 //     db.close();
36 //   });
37 // });
38
39
40 var MongoClient = require('mongodb').MongoClient;
41 var url = "mongodb://localhost:27017/Musics";
42 MongoClient.connect(url, function(err, db) {
43   if (err) throw err;
44   var dbo = db.db("Musics");
45   dbo.collection("Details").find({}).toArray(function(err, result) {
46     if (err) throw err;
47     console.log(result);
48     db.close();
49   });
50 });
51
```

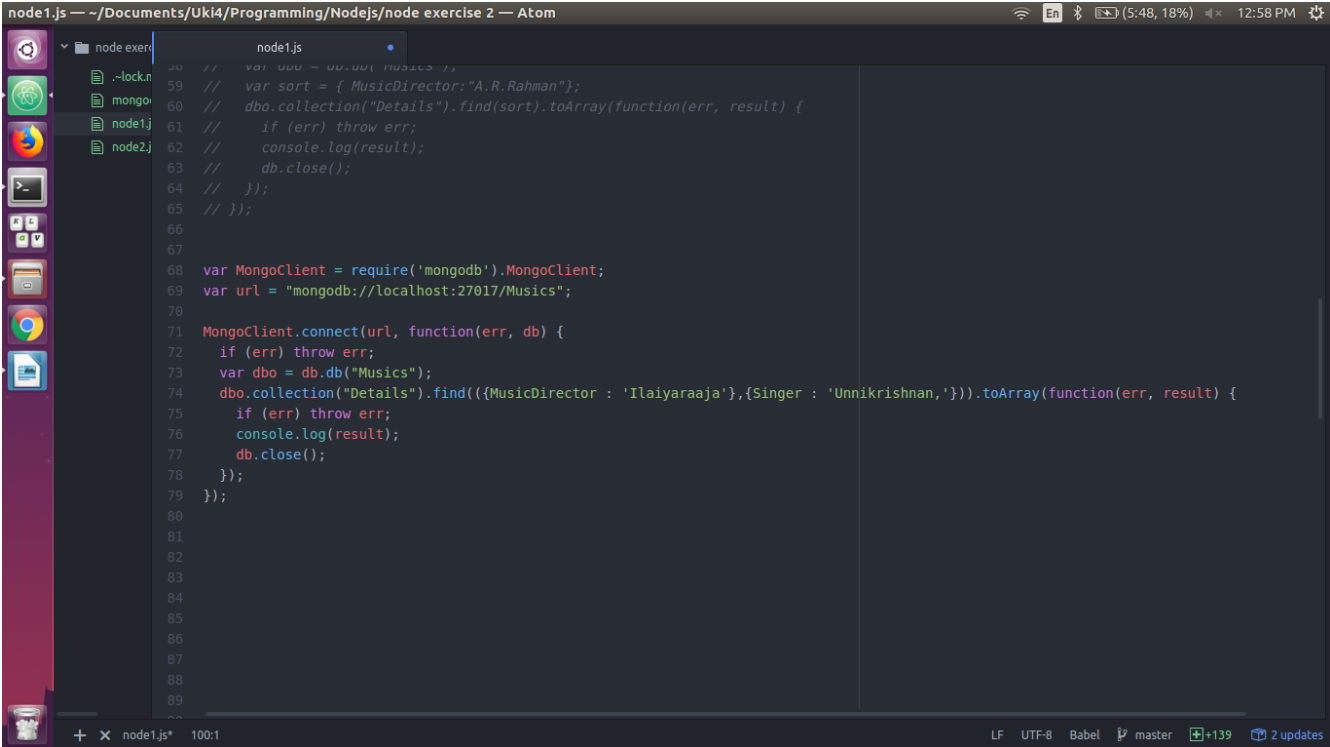
```
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09:~/Documents/Uki4/Programming/Nodejs/node exercise 2$ node node1.js
(node:5800) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[ { _id: 5c527729279044143a6b1140,
  SongName: 'Evano Oruvan',
  Film: 'Alai Payuthey',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Swarnalatha' },
  { _id: 5c527729279044143a6b1141,
    SongName: 'Roja Poonthoddam',
    Film: 'Kannukkul Nilavu',
    MusicDirector: 'Illayaraaja',
    Singer: 'Unnikrishnan,Anuradha' },
  { _id: 5c527729279044143a6b1142,
    SongName: 'Vennilave Vennilave Vinaithaandi',
    Film: 'Minsaara Kanavu',
    MusicDirector: 'A.R.Rahman',
    Singer: 'Hariharan,Sadhana Sargan' },
  { _id: 5c527729279044143a6b1143,
    SongName: 'Sollamal Thoddu Chellum',
    Film: 'Dheena',
    MusicDirector: 'Yuven Shankar Raja',
    Singer: 'Hariharan' } ]
ukistu09@ukipc09:~/Documents/Uki4/Programming/Nodejs/node exercise 2$
```

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

```
node1.js — ~/Documents/Uki4/Programming/Nodejs/node exercise 2 — Atom
node1.js
node2.js
node1.js
35 // db.close();
36 // });
37 // });
38
39 //
40 // var MongoClient = require('mongodb').MongoClient;
41 // var url = "mongodb://localhost:27017/Musics";
42 // MongoClient.connect(url, function(err, db) {
43 //   if (err) throw err;
44 //   var dbo = db.db("Musics");
45 //   dbo.collection("Details").find({}).toArray(function(err, result) {
46 //     if (err) throw err;
47 //     console.log(result);
48 //     db.close();
49 //   });
50 // });
51
52
53 var MongoClient = require('mongodb').MongoClient;
54 var url = "mongodb://localhost:27017/Musics";
55
56 MongoClient.connect(url, function(err, db) {
57   if (err) throw err;
58   var dbo = db.db("Musics");
59   var sort = { MusicDirector: "A.R.Rahman" };
60   dbo.collection("Details").find(sort).toArray(function(err, result) {
61     if (err) throw err;
62     console.log(result);
63     db.close();
64   });
65 });
66
LF UTF-8 Babel master +66 2 updates
```

```
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2$ node node1.js
(node) Warning: Using a data URI to initialize a module is deprecated, and will be removed in a future version. To use the new parser, pass op
tion { useNewUrlParser: true } to MongoClient.connect.
[ { id: 5c527729279044143a6b1140,
  SongName: 'Evano Oruvan',
  Film: 'Alai Payuthey',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Swarnalatha' },
  { id: 5c527729279044143a6b1142,
  SongName: 'Vennilave Vennilave Vinaithaandi',
  Film: 'Minsaara Kanavu',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Hariharan,Sadhana Sargam' } ]
ukistu09@ukipc09:~/Documents/Uki4/Programming/Nodejs/node exercise 2$
```

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



```
node1.js -- ~/Documents/Uki4/Programming/Nodejs/node exercise 2 — Atom
node1.js
50 // var url = 'mongodb://localhost:27017/Musics';
59 // var sort = { MusicDirector: "A.R.Rahman" };
60 // dbo.collection("Details").find(sort).toArray(function(err, result) {
61 //   if (err) throw err;
62 //   console.log(result);
63 //   db.close();
64 // });
65 // });
66
67
68 var MongoClient = require('mongodb').MongoClient;
69 var url = "mongodb://localhost:27017/Musics";
70
71 MongoClient.connect(url, function(err, db) {
72   if (err) throw err;
73   var dbo = db.db("Musics");
74   dbo.collection("Details").find({MusicDirector : 'Ilaiyaraaja'}, {Singer : 'Unnikrishnan,'}).toArray(function(err, result) {
75     if (err) throw err;
76     console.log(result);
77     db.close();
78   });
79 });
80
81
82
83
84
85
86
87
88
89
90
```

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

```
node1.js — ~/Documents/Uki4/Programming/Nodejs/node exercise 2 — Atom

node1.js
node2.js
62 // console.log(result);
63 // db.close();
64 // });
65 // });
66
67
68 // var MongoClient = require('mongodb').MongoClient;
69 // var url = "mongodb://localhost:27017/Musics";
70 //
71 // MongoClient.connect(url, function(err, db) {
72 //   if (err) throw err;
73 //   var dbo = db.db("Musics");
74 //   dbo.collection("Details").find({MusicDirector : 'Ilaiyaraaja'}, {Singer : 'Unnikrishnan,'})).toArray(function(err, result) {
75 //     if (err) throw err;
76 //     console.log(result);
77 //     db.close();
78 //   });
79 // });
80
81 var MongoClient = require('mongodb').MongoClient;
82 var url = "mongodb://localhost:27017/Musics";
83
84 MongoClient.connect(url, function(err, db) {
85   if (err) throw err;
86   var dbo = db.db("Musics");
87   var myquery = { Film:"Alai Payuthey" };
88   dbo.collection("Details").deleteOne(myquery, function(err, obj) {
89     if (err) throw err;
90     console.log("1 document deleted");
91     db.close();
92   });
93 }
```

```
Terminal File Edit View Search Terminal Tabs Help
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09:~/Documents/Uki4/Programming/Nodejs/node exercise 2$ node node1.js
(node:9528) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass op
tion { useNewUrlParser: true } to MongoClient.connect.
1 document deleted
ukistu09@ukipc09:~/Documents/Uki4/Programming/Nodejs/node exercise 2$
```

8) Add new song which is your favourite.

```
node1.js — ~/Documents/Uki4/Programming/Nodejs/node exercise 2 — Atom
node1.js
node2.js
80 //
81 // var MongoClient = require('mongodb').MongoClient;
82 // var url = "mongodb://localhost:27017/Musics";
83 //
84 // MongoClient.connect(url, function(err, db) {
85 //   if (err) throw err;
86 //   var dbo = db.db("Musics");
87 //   var myquery = { Film: "Alai Payuthey" };
88 //   dbo.collection("Details").deleteOne(myquery, function(err, obj) {
89 //     if (err) throw err;
90 //     console.log("1 document deleted");
91 //     db.close();
92 //   });
93 // });
94
95
96 var MongoClient = require('mongodb').MongoClient;
97 var url = "mongodb://localhost:27017/Musics";
98
99 MongoClient.connect(url, function(err, db) {
100   if (err) throw err;
101   var dbo = db.db("Musics");
102   var myobj = { SongName: "Naan un Azhaginilae", Film: 24, MusicDirector: "A.R.Rahman", Singer: "Arijit Singh" }
103   ;
104   dbo.collection("Details").insertOne(myobj, function(err, res) {
105     if (err) throw err;
106     console.log("1 document inserted");
107     db.close();
108   });
109 });
110
```

```
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2$ node node1.js
(node:7659) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass op
tion { useNewUrlParser: true } to MongoClient.connect.
1 document inserted
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2$
```


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

```
node1.js -- ~/Documents/Uki4/Programming/Nodejs/node exercise 2 — Atom

node1.js
node2.js
95
96 // var MongoClient = require('mongodb').MongoClient;
97 // var url = "mongodb://localhost:27017/Musics";
98 //
99 // MongoClient.connect(url, function(err, db) {
100 //   if (err) throw err;
101 //   var dbo = db.db("Musics");
102 //   var myobj = {SongName:"Naan un Azhaginilae",Film:24 ,MusicDirector:"A.R.Rahman",Singer:"Arijit Singh"}
103 // ;
104 //   dbo.collection("Details").insertOne(myobj, function(err, res) {
105 //     if (err) throw err;
106 //     console.log("1 document inserted");
107 //     db.close();
108 //   });
109 // });
110
111
112
113 var MongoClient = require('mongodb').MongoClient;
114 var url = "mongodb://localhost:27017/Musics";
115
116 MongoClient.connect(url, function(err, db) {
117   if (err) throw err;
118   var dbo = db.db("Musics");
119   dbo.collection("Details").find({Singer : "Hariharan"},{Film : 'Minsaara Kanavu'}).toArray(function(err, result) {
120     if (err) throw err;
121     console.log(result);
122     db.close();
123   });
124 });
125
```

```
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09:~/Documents/Uki4/Programming/Nodejs/node exercise 2$ node node1.js
(node:7816) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass op
tion { useNewUrlParser: true } to MongoClient.connect.
[ { _id: 5c527729279044143a6b1142,
  SongName: 'Vennilave Vennilave Vinaithaandi',
  Film: 'Minsaara Kanavu',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Hariharan,Sadhana Sargam' } ]
ukistu09@ukipc09:~/Documents/Uki4/Programming/Nodejs/node exercise 2$
```

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

```
node1.js — ~/Documents/Uki4/Programming/Nodejs/node exercise 2 — Atom
node1.js
node2.js
109 // });
110
111
112
113 // var MongoClient = require('mongodb').MongoClient;
114 // var url = "mongodb://localhost:27017/Musics";
115 //
116 // MongoClient.connect(url, function(err, db) {
117 //   if (err) throw err;
118 //   var dbo = db.db("Musics");
119 //   dbo.collection("Details").find({Singer : "Hariharan"},{Film : 'Minsaara Kanavu'})).toArray(function(err, result) {
120 //     if (err) throw err;
121 //     console.log(result);
122 //     db.close();
123 //   });
124 // });
125
126
127 var MongoClient = require('mongodb').MongoClient;
128 var url = "mongodb://localhost:27017/Musics";
129
130 MongoClient.connect(url, function(err, db) {
131   if (err) throw err;
132   var dbo = db.db("Musics");
133   dbo.collection("Details").find({[_id:false,Singer:true, Film:false, SongName:false,MusicDirector:false,] }).toArray(function(err, res
134   if (err) throw err;
135   console.log(result);
136   db.close();
137 });
138
139
```

```
node1.js — ~/Documents/Uki4/Programming/Nodejs/node exercise 2 — Atom
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2
ukistu09@ukipc09: ~/Documents/Uki4/Programming/Nodejs/node exercise 2$ node node1.js
(node:8629) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass op
tion { useNewUrlParser: true } to MongoClient.connect.
[ { _id: 5c527729279044143a6b1141,
  SongName: 'Roja Poonthoddam',
  Film: 'Kannukkul Nilavu',
  MusicDirector: 'Illayaraaja',
  Singer: 'Unnikrishnan,Anuradha' },
  { _id: 5c527729279044143a6b1142,
  SongName: 'Vennilave Vennilave Vinaithaandi',
  Film: 'Minsaara Kanavu',
  MusicDirector: 'A.R.Rahman',
  Singer: 'Hariharan,Sadhana Sargam' },
  { _id: 5c527729279044143a6b1143,
  SongName: 'Sollanai Thoddu Chellum',
  Film: 'Dheena',
  MusicDirector: 'Yuven Shankar Raja',
  Singer: 'Hariharan' },
  { _id: 5c529c704d69fa1debe3a75e,
  SongName: 'Naan un Azhaginilae',
  Film: 24,
  MusicDirector: 'A.R.Rahman',
  Singer: 'Arijit Singh' } ]
ukistu09@ukipc09:~/Documents/Uki4/Programming/Nodejs/node exercise 2$
```