```
1) Create a Database called student
```

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

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

ukistu09@ukipc09:~/Documents/uki4/programming/nodejs/mongodb$ node qu2.js
(node:4092) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrl Parser: true } to MongoClient.connect.
```

2) Create a collection called studentmarks

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbo = db.db("student");
   dbo.createCollection("studentmarks", function(err, res) {
      if (err) throw err;
      console.log("Collection created!");
      db.close();
   });
});
```

ukistu09@ukipc09:~/Documents/uki4/programming/nodejs/mongodb\$ node qu2.js
(node:4169) DeprecationWarning: current URL string parser is deprecated, and wil
l be removed in a future version. To use the new parser, pass option { useNewUrl
Parser: true } to MongoClient.connect.
Collection created!

3) Create the documents listed in above table.

```
name: "Mala",maths marks:45 ,english marks:53,science marks: 72
},
  name: "Vanu", maths marks: 80, english marks: 75, science marks: 85
},
  name: "Kala",maths_marks: 32,english_marks: 46,science_marks: 53
},
  name: "Aruli",maths_marks: 78,english_marks: 85,science_marks: 80
},
{
name: "Shayu",maths_marks: 80,english_marks: 76,science_marks: 65
},
  name: "Kumaran", maths marks: 32, english marks: 73, science marks: 84
},
  name: "Lucky",maths_marks: 66,english_marks: 90, science_marks: 45
},
  name: "Gva",maths_marks: 71,english_marks: 75,cience_marks: 56
},
  name: "Raam",maths_marks: 41,english_marks: 65,science_marks: 88
}
 dbo.collection("studentmarks").insertMany(myobj, function(err, res) {
       if (err) throw err;
       console.log("Number of documents inserted: " + res.insertedCount);
       db.close();
 });
});
ukistu09@ukipc09:~/Documents/uki4/programming/nodejs/mongodb$ node qu2.js
(node:4277) DeprecationWarning: current URL string parser is deprecated, and wil
l be removed in a future version. To use the new parser, pass option \{ <code>useNewUrl</code>
Parser: true } to MongoClient.connect.
Number of documents inserted:
```

4) Increase the maths marks of Mala by 6 marks

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

```
MongoClient.connect(url, function(err, db) {
 if (err) throw err;
 var dbo = db.db("student");
 var myquery = { name: "Mala" };
 var newvalues = { $inc: {maths marks:6 } };
 dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
       if (err) throw err;
      console.log("1 document updated");
      db.close();
});
});
ukistu09@ukipc09:~/Documents/uki4/programming/nodejs/mongodb$ node qu2.js
(node:4345) DeprecationWarning: current URL string parser is deprecated, and wil
l be removed in a future version. To use the new parser, pass option { useNewUrl
Parser: true } to MongoClient.connect.
1 document updated
```

5) List the names of students who got more than 50 marks in Maths Subject.

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    dbo.collection("studentmarks").find({maths_marks:{$gt:50}}).toArray(function(err, result) {
        if (err) throw err;
        console.log(result);
        db.close();
    });
});
```

6)Add a new column(field) for Average for all students.

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://127.0.0.1:27017/student";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    var myquery = {};
    var newvalues = {$set: {Average: ""}};
    dbo.collection("studentmarks").updateMany(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log("Average inputed");
        db.close();
    });
});

**Ititationalstripsed:-/Documents/ukt4/programstng/modejs/mongodb$ node qu2.js
    fords:44653 DeprecationMarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass of the calculation of the control of the con
```

7) Update Marks_Science=75 to Lucky .

```
code:var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://127.0.0.1:27017/student";
MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("student");
  var myquery = { name: "Lucky" };
  var newvalues = { $set: {science_marks:75 }};
```

```
dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
       if (err) throw err;
       console.log(" updated");
       db.close();
 });
});
ukistu09@ukipc09:~/Documents/uki4/programming/nodejs/mongodb$ node qu2.js
(node:4574) DeprecationWarning: current URL string parser is deprecated, and wil
 be removed in a future version. To use the new parser, pass option { useNewUrl
 arser: true } to MongoClient.connect.
 updated
8) List the names who got more than 50 marks in all subjects.
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/student";
MongoClient.connect(url, function(err, db) {
 if (err) throw err;
 var dbo = db.db("student");
dbo.collection("studentmarks").find({maths_marks:{$gt:50},english_marks:{$gt:50}}).toArray(fun
ction(err, result) {
       if (err) throw err;
       console.log(result);
       db.close();
 });
});
                                     is deprecated, and will be removed in a future version. To use the new parser, pass o
       e: '' },
c529e40e0880b10b5740e2b,
```

9) List the names who got less than 50 marks in Maths subject and more than 50 marks in English

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/student";
MongoClient.connect(url, function(err, db) {
 if (err) throw err;
 var dbo = db.db("student");
dbo.collection("studentmarks").find({$and:[{maths_marks:{$lt:50},english_marks:{$gt:50}}]}).toAr
ray(function(err, result) {
       if (err) throw err;
       console.log(result);
       db.close();
});
});
10) List the names who got less than 40 in both Maths and Science.
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/student";
MongoClient.connect(url, function(err, db) {
 if (err) throw err;
 var dbo = db.db("student");
dbo.collection("studentmarks").find({$and:[{maths_marks:{$lt:50},science_marks:{$lt:50}}]}).toAr
ray(function(err, result) {
       if (err) throw err;
       console.log(result);
       db.close();
});
});
        .
529e40e0880b10b5740e2c.
```

11) Remove Science column/field for Raam

var MongoClient = require('mongodb').MongoClient;

```
var url = "mongodb://127.0.0.1:27017/student";
MongoClient.connect(url, function(err, db) {
 if (err) throw err;
 var dbo = db.db("student");
 var myquery = { name: "Raam" };
 var newvalues = { $unset: {science_marks:75 } };
 dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log("changed");
        db.close();
 });
});
12) Update John's Math mark as 87 and English mark as 23, if john not
available upsert.
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/student";
MongoClient.connect(url, function(err, db) {
 if (err) throw err;
 var dbo = db.db("student");
 var myobj = [
        { name: 'John', maths_marks:87, english_marks:23}
 dbo.collection("studenmarks").insertMany(myobj, function(err, res) {
        if (err) throw err;
        console.log("Number of documents changed: " + res.insertedCount);
        db.close();
 });
});
      wux.pr.us.-/uucuments/unt.arprogramming/nodejs/mongodb$ node qu2.js
00) DeprecationWarning: 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.
13) Rename the english marks column/field for John to science marks
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://127.0.0.1:27017/student";
MongoClient.connect(url, function(err, db) {
 if (err) throw err;
 var dbo = db.db("student");
```

```
var myguery = { name:"John" };
 var newvalues = { $rename: {english_marks: "science_marks"} };
 dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log("document updated");
        db.close();
 });
});
                       ourrent URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass to MongoClient.connect.
14) Remove Kumaran's document from collection
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/student";
MongoClient.connect(url, function(err, db) {
 if (err) throw err;
 var dbo = db.db("student");
 var myquery = { address: 'Mountain 21' };
 dbo.collection("studentmarks").deleteOne(myquery, function(err, obj) {
        if (err) throw err;
        console.log("document deleted");
        db.close();
 });
});
        DeprecationWarning: current URL string parser is deprecated,
NewUrlParser: true } to MongoClient.connect.
15) Find Kala's or Aruli's math marks and science marks
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/student";
MongoClient.connect(url, function(err, db) {
 if (err) throw err;
 var dbo = db.db("student");
        dbo.collection("studentmarks").find({$or:[{name:"Aruli"},{name: "Kala"}]},{maths_marks:1,
science_marks:1}).toArray(function(err, result) {
        if (err) throw err;
        console.log(result);
        db.close();
 });
});
```