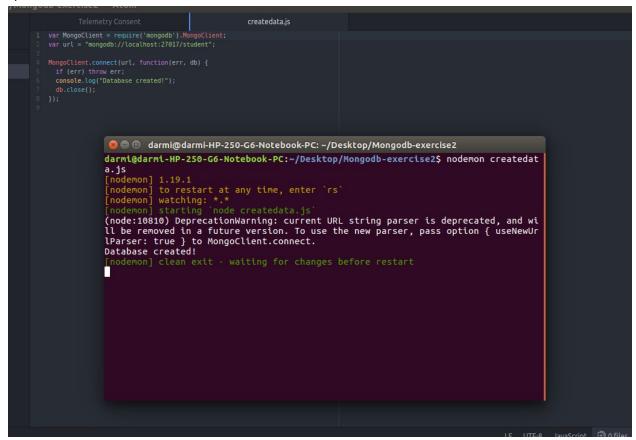
#### 1)Create a Database called student



# 2) Create a collection called studentmarks

```
darmi@darmi-HP-250-G6-Notebook-PC:~/Desktop/Mongodb-exercise2$ nodemon createcol
lection.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node createcollection.js`
(node:11665) DeprecationWarning: current URL string parser is deprecated, and wi
ll be removed in a future version. To use the new parser, pass option { useNewUr
lParser: true } to MongoClient.connect.
Collection created!
[nodemon] clean exit - waiting for changes before restart
```

3) Create the documents listed in above table.

```
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node insert.js`
(node:11769) 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: 9
[nodemon] clean exit - waiting for changes before restart
```

```
createdstais|s
var MungCitent = require('mongodb').NemgoCitent;
var url = 'mongodb'/localhost127817';

MongoCitent.connect(url, function(err, db) (
    if (err) throw err;
    war dbo = db.db('student'):
    var myob) = [
        (name: 'Mala', maths marks: 85, english marks: 53, science marks: 53),
        (name: 'Mala', maths marks: 30, english marks: 55, science marks: 55),
        (name: 'Mala', maths marks: 30, english marks: 65, science marks: 65),
        (name: 'Knala', maths marks: 30, english marks: 65, science marks: 65),
        (name: 'Knala', maths marks: 30, english marks: 65, english marks: 65
```

4) Increase the maths marks of Mala by 6 marks

```
darmi@darmi-HP-250-G6-Notebook-PC:~/Desktop/Mongodb-exercise2$ nodemon increase.
js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node increase.js`
(node:12671) DeprecationWarning: current URL string parser is deprecated, and wi
ll be removed in a future version. To use the new parser, pass option { useNewUr
lParser: true } to MongoClient.connect.
1 document updated
[nodemon] clean exit - waiting for changes before restart
```

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

```
| var MongoClient = require('mongodb').NongoClient;
| var vart = 'mongodb'./localhost:/2731/*;
| NongoClient.connect(urf, function(err, db) {
| if (err) throw err;
| var doo = db.dd('student');
| var doo = db.dd('student');
| var query = 'mants_marks'.{sqt:59});
| dbo.collection('studentmarks').find(query, { projection: {_id:0,science_marks:0,english_marks:0} }).toArray(function(err, result) {
| if (err) throw err;
| console.logiresult);
| db.cuse();
| j);
| j);
| db.cuse();
| j);
| j);
| late | late
```

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

```
darmi@darmi-HP-250-G6-Notebook-PC:~/Desktop/Mongodb-exercise2$ nodemon average.j
s
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node average.js`
(node:13110) DeprecationWarning: current URL string parser is deprecated, and wi
ll be removed in a future version. To use the new parser, pass option { useNewUr
lParser: true } to MongoClient.connect.
1 document updated
[nodemon] clean exit - waiting for changes before restart
```

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbo = db.db("student");
   var myquery = { };
   var newvalues = { $set: {average: "" } };
   dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
    if (err) throw err;
      console.log("l document updated");
   db.close();
});
});
```

7) Update Marks\_Science=75 to Lucky.

```
darmi@darmi-HP-250-G6-Notebook-PC:~/Desktop/Mongodb-exercise2$ nodemon updtae.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node updtae.js`
(node:13259) DeprecationWarning: current URL string parser is deprecated, and wi lb e removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
1 document updated
[nodemon] clean exit - waiting for changes before restart
```

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

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("l document updated");
        db.close();
    });
};
```

8) List the names who got more than 50 marks in all subjects.

```
darmi@darmi-HP-250-G6-Notebook-PC:~/Desktop/Mongodb-exercise2$ nodemon morethan1
.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node morethan1.js`
(node:13392) DeprecationWarning: current URL string parser is deprecated, and wi
ll be removed in a future version. To use the new parser, pass option { useNewUr
lParser: true } to MongoClient.connect.
[ { name: 'Mala', average: '' },
 { name: 'Vanu' },
 { name: 'Aruli' },
 { name: 'Shayu' },
 { name: 'Lucky' },
 { name: 'Gva' } ]
[nodemon] clean exit - waiting for changes before restart
```

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    var query = {$and:[{"maths_marks":{$gt:50}},{"english_marks":{$gt:50}}];
    dbo.collection("studentmarks").find(query, { projection: {_id:0,science_marks:0,english_marks:0,maths_marks:0} }).toArray(function(err, result) {
        if (err) throw err;
        console.log(result);
        db.close();
    });
};

3 });
```

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

```
darmi@darmi-HP-250-G6-Notebook-PC:~/Desktop/Mongodb-exercise2$ nodemon morethan2
.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node morethan2.js`
(node:3624) 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.
[ { name: 'Kumaran' }, { name: 'Raam' } ]
[nodemon] clean exit - waiting for changes before restart
```

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    dbo.collection("studentmarks").find({Sand:[{maths_marks:{$lt:50}}},{english_marks:{$gt:50}}]}, { projection: { _id: 0, name: 1 } }).toArray(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.

```
darmi@darmi-HP-250-G6-Notebook-PC:~/Desktop/Mongodb-exercise2$ nodemon lessthan.
js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node lessthan.js`
(node:7176) 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.
[]
[nodemon] clean exit - waiting for changes before restart
```

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db('student");
    dbo.collection("studentmarks").find({$and:[{maths_marks:{$\t:40}}},{$science_marks:{$\t:40}}]}, { projection: { _id: 0, name: 1 } }).toArray(function(err, result if (err) throw err;
    console.log(result);
    db.close();
};
};

};
```

## 11) Remove Science column/field for Raam

```
darmi@darmi-HP-250-G6-Notebook-PC:~/Desktop/Mongodb-exercise2$ nodemon unset.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node unset.js`
(node:4668) 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.
1 document updated
[nodemon] clean exit - waiting for changes before restart
```

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    var myquery = {name: 'Raam' };
    var newvalues = {$unset:{science_marks:88}};
    dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
    if (err) throw err;
    console.log("l document updated");
    db.close();
};
});
```

12) Update John's Math mark as 87 and English mark as 23, if john not available upsert.

```
darmi@darmi-HP-250-G6-Notebook-PC:-/Desktop/Mongodb-exercise2$ nodemon update1.js
[nodemon] 1.19.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node update1.js`
(node:8450) 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 upserted
[nodemon] clean exit - waiting for changes before restart
```

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

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("studentmarks").insertOne(myobj,{upsert: true, safe: false}, function(err, res) {
        if (err) throw err;
        console.log("1 document upserted");
        db.close();
    });
}

// Abcomparison of the control of the control
```

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/";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    var myquery = { _id: "Lucky" };
    var myquery = { _id: "Lucky" };
    var newvalues = { $rename: {"english_marks":"science_marks" } };
    dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log("l document updated");
        db.close();
    }
};

});
```

## 14) Remove Kumaran's document from collection

```
Telemetry Consent remove;s

| var MongoClient = require('nongodo').MongoClient;
| var var prquery = { address: 'Montain 21' };
| db.close(): dd.close(): document deleted');
| db.close(): dd.close(): dd.
```

## 15) Find Kala's or Aruli's math\_marks and science\_marks