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();
});
```

2) Create a collection called studentmarks

```
createCollection.js

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.createCollection('studentmarks', function(err,res) {
      if (err) throw err;
      console.log("collection created");
   db.close();
}

b)

createCollection created");

db.close();
}
```

3) Create the documents listed in above table.

```
createDocuments.js
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 myobi = [
    {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, science 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();
  });
});
```

4) Increase the maths marks of Mala by 6 marks

```
increse.js

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

2  var url = "mongodb://127.0.0.1:27017/";

4  MongoClient.connect(url, function(err, db) {
5    if (err) throw err;
6    var dbo = db.db("student");
7    var myquery = { name: 'Mala'};
8    var newvalues = { $set: {maths_marks: 51 } };
9    dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
10    if (err) throw err;
11    console.log("1 document updated");
12    db.close();
13    });
14  });
15
```

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

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

7) Update Marks\_Science=75 to Lucky

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

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

```
delete.js rename.js deleteKumaran.js lessAndGreater.js

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

2  var url = "mongodb://localhost:27017/";

3  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}}]})
    if (err) throw err;
    console.log(result);
    db.close();

1    });

12  });
```

10) List the names who got less than 40 in both Maths and Science.

11) Remove Science column/field for Raam

```
delete.js

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 myquery = { name: "Raam" };
    var newvalues = {$unset: {science_marks: 88} };
    dbo.collection("studentmarks").deleteOne(myquery, function(err, res) {
        if (err) throw err;
        console.log("1 document updated");
        db.close();
    });
}

});

14 });
```

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

13) Rename the english\_marks column/field for John to science\_marks

```
delete.js rename.js

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

2  var url = "mongodb://localhost:27017/";

4  MongoClient.connect(url, function(err, db) {
5    if (err) throw err;
6    var dbo = db.db("student");
7    var myquery = { english_marks: 76 };
8    var newvalues = {$rename: {science_marks: 65} };

9    dbo.collection("studentmarks").updateDne(myquery,newvalues, function(err, res) {
10     if (err) throw err;
11     console.log("1 document updated");
12    db.close();
13    });
14  });
```

14) Remove Kumaran's document from collection

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