1) Create a Database called student

```
> use student
switched to db student
>
```

Create a collection called studentmarks

```
> db.studentmarks
student.studentmarks
```

Create the documents listed in above table.

```
> db.studentmarks.insert({name:"mala",maths_marks:"45",english_marks:"53",science_marks:"72"})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name:"venu",maths_marks:"80",english_marks:"75",science_marks:"85"})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name:"kala",maths_marks:"32",english_marks:"46",science_marks:"53"})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name:"aruli",maths_marks:"78",english_marks:"85",science_marks:"80"})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name:"shaya",maths_marks:"80",english_marks:"76",science_marks:"65"})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name:"kumaran",maths_marks:"32",english_marks:"73",science_marks:"84"})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name:"lucky",maths_marks:"66",english_marks:"90",science_marks:"45"})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name:"gva",maths_marks:"71",english_marks:"75",science_marks:"56"})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name:"gva",maths_marks:"71",english_marks:"65",science_marks:"88"})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name:"raam",maths_marks:"41",english_marks:"65",science_marks:"88"})
WriteResult({ "nInserted" : 1 })
```

4) Increase the maths marks of Mala by 6 marks

```
,
> db.studentmarks.update({name:"mala"},{$inc:{maths_marks:6}})
WriteResult({    "nMatched" : 1,    "nUpserted" : 0,    "nModified" : 1 })
```

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

```
59269d02126487dd9503015b
                                                                                 "name
ObjectId("59269d02126487dd95030150")
ObjectId("59269d45126487dd9503015c")
ObjectId("59269d7c126487dd9503015e")
ObjectId("59269d9f126487dd9503015f")
ObjectId("59269e0b126487dd95030161")
ObjectId("59269e2a126487dd95030162")
                                                                                                                                                                                                          "science_marks"
, "science_marks
                                                                                                                                                            "english_marks"
, "english_marks"
                                                                                                                    "maths_marks"
                                                                                "name"
                                                                                                                                                    80,
                                                                                                   "venu"
                                                                                 "name"
                                                                                                                      "maths_marks"
                                                                                                   "aruli
                                                                                                                                                                                                    85,
                                                                                                                                                                                                    76, "science_marks"
90, "science_marks"
                                                                                                                                                     80, "english_marks"
66, "english_marks"
                                                                                "name"
                                                                                                                                                              "english_marks"
                                                                                                   "shaya"
                                                                                                                      "maths_marks"
                                                                                                                      "maths_marks"
                                                                                                   "lucky
```

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

7) Update Marks_Science=75 to Lucky.

```
> db.studentmarks.update({"name":"lucky"},{$set:{"science_marks":75}})
WriteResult({    "nMatched" : 1,    "nUpserted" : 0,    "nModified" : 1 })
```

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

```
db.studentmarks.find({$or:[{"maths_marks":{$gt:50}},{"science_marks":{$gt:50}},{"english_marks":{$gt:50}}]},{"name":1,_id:0}).pretty()
"name" : "mala" }
"name" : "venu" }
"name" : "kala" }
"name" : "shaya" }
"name" : "shaya" }
"name" : "kumaran" }
"name" : "lucky" }
"name" : "gva" }
"name" : "gva" }
"name" : "gva" }
"name" : "raam" }
```

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

```
> db.studentmarks.find({$or:[{"maths_marks":{$gt:50}},{"english_marks":{$lt:50}}]},{"name":1,_id:0}).pretty()
{ "name" : "mala" }
{ "name" : "venu" }
{ "name : "kala" }
{ "name : "kala" }
{ "name : "shaya" }
{ "name : "lucky" }
{ "name : "gva" }
```

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

```
> db.studentmarks.find({$or:[{"maths_marks":{$lt:40}},{"science_marks":{$lt:40}}]},{"name":1,_id:0}).pretty()
{ "name" : "kala" }
{ "name" : "kumaran" }
```

- 11) Remove Science column/field for Raam
- 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
- 14) Remove Kumaran's document from collection

15) Find Kala's or Aruli's math_marks and science_marks