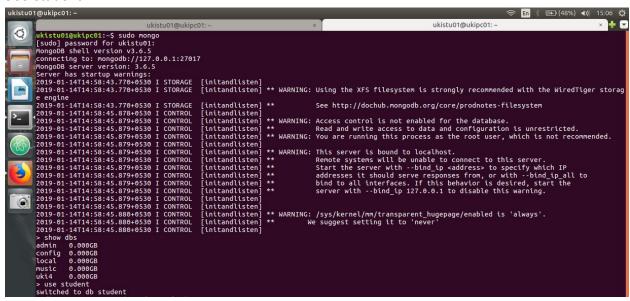
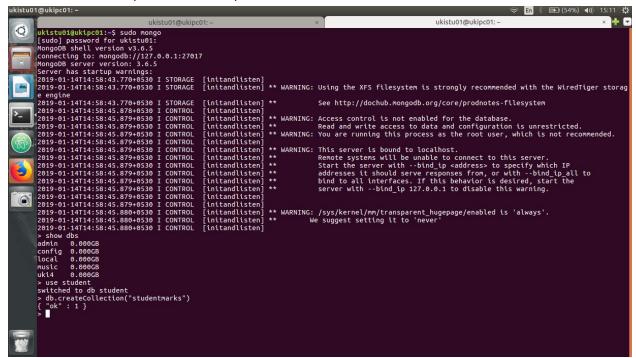
Create a Database called student Use student



2) Create a collection called studentmarks db.createCollection("studentmarks")



3) Create the documents listed in above table

```
ukistuol@ukipc01:-

ukistu
```

4)Increase the maths marks of Mala by 6 marks db.studentmarks.update({"name":"mala"},{\$inc:{"maths_marks":6}})

```
ukistu01@ukipc01:-5 sudo nongo
[sudo] password for ukistu01:
| Mongold shell version v3.6.3 | 5.0.0.1:27017 |
| Mongold shell version v3.6.3 |
| Mongold shell version v3.6.3 | 5.0.0.1:27017 |
| Mongold shell version v3.6.3 |
| Mon
```

5) List the names of students who got more than 50 marks in Maths Subject. db.studentmarks.find({"maths_marks":{\$gt:50}},{"name":1,_id:0})

```
ukistuo1@ukipc01:-

ukistu
```

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

db.studentmarks.update({}, {\$set: {"Average":"null"}}, {multi:true})

7) Update Marks_Science=75 to Lucky . db.studentmarks.update({"name":"lucky"}, {\$set:{"science_marks":75}})

```
| Ukistuol@ukipcol:- | Ukistuo
```

8) List the names who got more than 50 marks in all subjects. db.studentmarks.find({\$and: [{"maths_marks":{\$gt:50}}, {"english_marks":{\$gt:50}}, {"science_marks":{\$gt:50}}], {"name":1,_id:0})

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

db.studentmarks.find({\$and: [{"maths_marks":{\$lt:50}}, {"english_marks":{\$gt:50}}]}, {"name":1,_id:0})

10) List the names who got less than 40 in both Maths and Science. db.studentmarks.find({\$and: [{"maths_marks":{\$lt:40}}, {"science_marks":{\$lt:40}}]}, {"name":1,_id:0})

There is no results. If we put or the output is......

11) Remove Science column/field for Raam. db.studentmarks.update({"name":"raam"},{\$unset:{"science_marks":88}})

12) Update John's Math mark as 87 and English mark as 23, if john not available upsert. db.studentmarks.insert({"name":"john","maths_marks":87,"english_marks":23})

```
ukistu01@ukipc01: -
      : ObjectId("5c3c63e3c3a4dfe3acacdcf0"), "name" : "mala", "maths marks" : 51, "english marks" : 53, "science marks" : 72, "Average"
 ' }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf1"), "name" : "vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85, "Averag
                                                          : "kala", "maths marks" : 32, "english marks" : 46, "science marks"
                                                          : "aruli", "maths marks" : 78, "english marks" : 85, "science marks" : 80,
                                                          : "shayu", "maths_marks" : 80, "english_marks" : 76, "science_marks" : 65,
      : ObjectId("5c3c63e3c3a4dfe3acacdcf5"). "name" : "kumaran". "maths marks" : 32. "englsh marks" : 73. "science marks" : 84. "Average
    }
": ObjectId("5c3c63e3c3a4dfe3acacdcf6"), "name" : "lucky", "maths_marks" : 66, "english_marks" : 90, "science_marks" : 75, "Average
      : ObjectId("5c3c63e3c3a4dfe3acacdcf7"), "name" : "qva", "maths marks" : 71, "english marks" : 75, "science marks" : 56, "Average" : "nu
" id": ObjectId("5c3c63e3c3a4dfe3acacdcf8"), "name": "raam", "maths_marks": 41, "english_marks": 65, "Average": "null" }
db.studentmarks.insert(("name":"john","maths_marks":87,"english_marks":23})
iteResult(( "nInserted": 1 })
db.studentmarks.find()
      : ObjectId("5c3c63e3c3a4dfe3acacdcf0"), "name" : "mala", "maths_marks" : 51, "english_marks" : 53, "science_marks" : 72, "Average" : "n
 " }
_td" : ObjectId("5c3c63e3c3a4dfe3acacdcf1"), "name" : "vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85, "Ave
     : ObjectId("5c3c63e3c3a4dfe3acacdcf2"). "name" : "kala". "maths marks" : 32. "english marks" : 46. "science marks" : 53. "Average
                                                          : "aruli", "maths_marks" : 78, "english_marks" : 85, "science_marks" : 80,
  " }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf4"), "name" : "shayu", "maths_marks" : 80, "english_marks" : 76, "science_marks" : 65,
     : ObjectId("5c3c63e3c3a4dfe3acacdcf5"), "name" : "kumaran", "maths_marks" : 32, "englsh_marks" : 73, "science_marks" : 84, "Average
      : ObjectId("5c3c63e3c3a4dfe3acacdcf6"), "name" : "lucky", "maths_marks" : 66, "english_marks" : 90, "science_marks" : 75, "Average
     : ObjectId("5c3c63e3c3a4dfe3acacdcf7"), "name" : "gva", "maths_marks" : 71, "english_marks" : 75, "science_marks" : 56, "Average" : "nu
        ObjectId("5c3c63e3c3a4dfe3acacdcf8"), "name" : "raam", "maths_marks" : 41, "english_marks" : 65, "Average" : "null" }
ObjectId("5c3ef4c0cebcdb58fb7f054e"), "name" : "john", "maths_marks" : 87, "english_marks" : 23 }
```

13) Rename the english_marks column/field for John to science_marks db.studentmarks.update({"name":"john"},{\$rename:{"english_marks":"science_marks"}})

```
ukistu01@ukinc01
    ' }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf1"), "name" : "vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85, "Average
                                                              : "kala", "maths_marks" : 32, "english_marks" : 46, "science_marks" : 53, "Avera
        : ObjectId("5c3c63e3c3a4dfe3acacdcf3"), "name" : "aruli", "maths_marks" : 78, "english_marks" : 85, "science_marks" : 80,
    " }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf4"), "name" : "shayu", "maths_marks" : 80, "english_marks" : 76, "science_marks" : 65,
                       5c3c63e3c3a4dfe3acacdcf5"), "name" : "kumaran", "maths_marks" : 32, "englsh_marks" : 73, "science_marks" : 84,
         : ObjectId("5c3c63e3c3a4dfe3acacdcf6"), "name" : "lucky", "maths_marks" : 66, "english marks" : 90, "science marks" : 75. "Average
        : ObjectId("5c3c63e3c3a4dfe3acacdcf7"), "name" : "gva", "maths_marks" : 71, "english_marks" : 75, "science_marks" : 56, "Average" : "nu
         : ObjectId("5c3c63e3c3a4dfe3acacdcf8"), "name" : "raam", "maths_marks" : 41, "english_marks" : 65, "Average" : "null" }
dentmarks.insert({"name":"john","maths_narks":87,"english_marks":23})
db.studentmarks.insert(("name":"john","maths_marks":87,"english_marks":23})
WriteResult({ "ninserted" : 1 })
> db.studentmarks.find()
{ "_id" : ObjectId("5c3c63e3c3a4dfe3acacdcf0"), "name" : "mala", "maths_marks" : 51, "english_marks" : 53, "science_marks" : 72, "Average"
       ' : ObjectId("5c3c63e3c3a4dfe3acacdcf1"), "name" : "vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85, "Average
                                                              : "kala", "maths_marks" : 32, "english_marks" : 46, "science_marks" : 53,
        : ObjectId("5c3c63e3c3a4dfe3acacdcf3"). "name" : "aruli". "maths marks" : 78. "english marks" : 85. "science marks" : 80.
        : ObjectId("5c3c63e3c3a4dfe3acacdcf4"), "name" : "shayu", "maths_marks" : 80, "english_marks" : 76, "science_marks" : 65,
        : ObjectId("5c3c63e3c3a4dfe3acacdcf5"), "name" : "kumaran", "maths marks" : 32, "englsh marks" : 73, "science marks" : 84, "Average
         : ObjectId("5c3c63e3c3a4dfe3acacdcf6"), "name" : "lucky", "maths_marks" : 66, "english_marks" : 90, "science_marks" : 75, "Average"
        : ObjectId("5c3c63e3c3a4dfe3acacdcf7"), "name" : "gva", "maths_marks" : 71, "english_marks" : 75, "science_marks" : 56, "Average" : "nu
          ObjectId("5c3c63e3c3a4dfe3acacdcf8"), "name" : "raam", "maths_marks" : 41, "english_marks" : 65, "Average" : "null" }
ObjectId("5c3ef4c0cebcdb58fb7f054e"), "name" : "john", "maths_marks" : 87, "english_marks" : 23 }
```

14) Remove Kumaran's document from collection db.studentmarks.remove({"name":"kumaran"})

```
•
               : ObjectId("5c3_63e3c3a4dfe3acacdcf0"), "name" : "mala", "maths_marks" : 51, "english_marks" : 53, "science_marks" : 72, "Average
           }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf1"), "name" : "vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85, "Average
      ull" }
{ "id" : ObjectId("5c3c63e3c3a4dfe3acacdcf2"), "name" : "kala", "maths_marks" : 32, "english_marks" : 46, "science_marks" : 53,
ull" }
           }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf3"), "name" : "aruli", "maths_marks" : 78, "english_marks" : 85, "science_marks" : 80,
       ull" }
"id": ObjectId("5c3c63e3c3a4dfe3acacdcf4"), "name": "shayu", "maths_marks": 80, "english_marks": 76, "science_marks": 65,
ull" }
       null" }
" {d" : ObjectId("5c3c63e3c3a4dfe3acacdcf6"), "name" : "lucky", "maths_marks" : 66, "english_marks" : 96, "science_marks" : 75, "Average"
ll[" }
          l" }
_id" : ObjectId("5c3c63e3c3a4dfe3acacdcf7"), "name" : "gva", "maths_marks" : 71, "english_marks" : 75, "science_marks" : 56, "Average"
     [" id": ObjectId("5c3c63e3c3a4dfe3acacdcf8"), "name": "raam", "maths_marks": 41, "english_marks": 65, "Average": "null" }

{ "_id": ObjectId("5c3ef4c0cebcdb58fb7f054e"), "name": "john", "maths_marks": 87, "english_marks": 23 }

> db.studentmarks.update("name":"john"),($rename:{"english_marks":"science_marks"}})

#writeResult(("nMatched": 1, "nUppserted": 0, "nModified": 1 })

> db.studentmarks.remove("name":"kumaran"})
     > db.studentmarks.remove(" iname : kamaran }/
WriteResult(( "nRemoved" : 1 })
> db.studentmarks.find()
{ "id" : ObjectId("5c3c63e3c3a4dfe3acacdcf0"), "name" : "mala", "maths_marks" : 51, "english_marks" : 53, "science_marks" : 72, "Average" : "n
         ." }
'_id" : ObjectId("5c3c63e3c3a4dfe3acacdcf1"), "name" : "vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85, "Average"
      ull" }
{ "_id" : ObjectId("5c3c63e3c3a4dfe3acacdcf2"), "name" : "kala", "maths_marks" : 32, "english_marks" : 46, "science_marks" : 53,
           }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf3"), "name" : "aruli", "maths_marks" : 78, "english_marks" : 85, "science_marks" : 80, "Average"
         ll" }
" id" : ObjectId("5c3c63e3c3a4dfe3acacdcf4"), "name" : "shayu", "maths_marks" : 80, "english_marks" : 76, "science_marks" : 65, "Average
lī" }
           ." }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf6"), "name" : "lucky", "maths_marks" : 66, "english_marks" : 90, "science_marks" : 75, "Average
          l" }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf7"), "name" : "gva", "maths_marks" : 71, "english_marks" : 75, "science_marks" : 56, "Average" : "nu
                 ObjectId("5c3c63e3c3a4dfe3acacdcf8"), "name" : "raam", "maths_marks" : 41, "english_marks" : 65, "Average" : "null" }
ObjectId("5c3ef4c0cebcdb58fb7f054e"), "name" : "john", "maths_marks" : 87, "science_marks" : 23 }
```

15) Find Kala's or Aruli's math_marks and science_marks db.studentmarks.find({\$or:[{"name":"kala"},{"name":"aruli"}]},{"maths_marks":1,"science_marks":1})

```
: ObjectId("5c3c63e3c3a4dfe3acacdcf1"), "name" : "vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85, "Average
    _____id" : ObjectId("5c3c63e3c3a4dfe3acacdcf2"), "name" : "kala", "maths_marks" : 32, "english_marks" : 46, "science_marks" : 53, "Avera
     }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf3"), "name" : "aruli", "maths_marks" : 78, "english_marks" : 85, "science_marks" : 80,
                                                                 "name" : "shayu", "maths_marks" : 80, "english_marks" : 76, "science_marks" : 65,
          : ObjectId("5c3c63e3c3a4dfe3acacdcf5"), "name" : "kumaran", "maths_marks" : 32, "englsh_marks" : 73, "science_marks" : 84, "Average
          : ObjectId("5c3c63e3c3a4dfe3acacdcf6"), "name" : "lucky", "maths_marks" : 66, "english_marks" : 90, "science_marks" : 75, "Average" : '
     [" }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf7"), "name" : "gva", "maths_marks" : 71, "english_marks" : 75, "science_marks" : 56, "Average
  . | "id" : ObjectId("5c3c63e3c3a4dfe3acacdcf8"), "name" : "raam", "maths_marks" : 41, "english_marks" : 65, "Average" : "null" }
" id" : ObjectId("5c3ef4c0cebcdb58fb7f054e"), "name" : "john", "maths_marks" : 87, "english_marks" : 23 }
db.studentmarks.update({"name':"john"),{$rename:{"english_marks":"science_marks"}})
iteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
db.studentmarks.remove({"name':"kumaran"})
iteResult({ "nRemoved" : 1 })
: ObjectId("5c3c63e3c3a4dfe3acacdcf0"), "name" : "mala", "maths_marks" : 51, "english_marks" : 53, "science_marks" : 72, "Average" : "n
    ." }
'_id" : ObjectId("5c3c63e3c3a4dfe3acacdcf1"), "name" : "vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85, "Average
ull<sup>=</sup> }
{ "_id" : ObjectId("5c3c63e3c3a4dfe3acacdcf2"), "name" : "kala", "maths_marks" : 32, "english_marks" : 46, "science_marks" : 53, "Average
          : ObjectId("5c3c63e3c3a4dfe3acacdcf3"), "name" : "aruli", "maths_marks" : 78, "english_marks" : 85, "science_marks" : 80, "Average
          : ObjectId("5c3c63e3c3a4dfe3acacdcf4"), "name" : "shayu", "maths_marks" : 80, "english_marks" : 76, "science_marks" : 65, "Average"
     . }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf6"), "name" : "lucky", "maths_marks" : 66, "english_marks" : 90, "science_marks" : 75, "Average" :
      " }
id" : ObjectId("5c3c63e3c3a4dfe3acacdcf7"), "name" : "gva", "maths_marks" : 71, "english_marks" : 75, "science_marks" : 56, "Average" : "nu
  " | d" : ObjectId("5c3c63e3c3a4dfe3acacdcf8"), "name" : "raam", "maths_marks" : 41, "english_marks" : 65, "Average" : "null" }
   "_id" : ObjectId("5c3ef4c0cebcdb58fb7f054e"), "name" : "john", "maths_marks" : 87, "science_marks" : 23 }
   db.studentmarks.find(($or:[{"name":"kala"),["name":"aruli")]},("maths_marks":1,"science_marks":1})
   "_id" : ObjectId("5c3c63e3c3a4dfe3acacdcf2"), "maths_marks" : 32, "science_marks" : 53 }
   "_id" : ObjectId("5c3c63e3c3a4dfe3acacdcf3"), "maths_marks" : 78, "science_marks" : 80 }
```