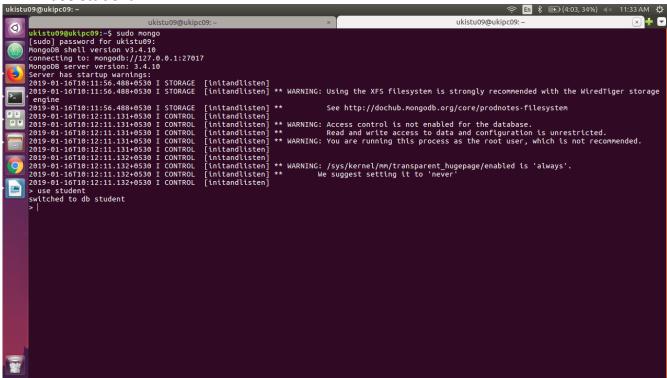
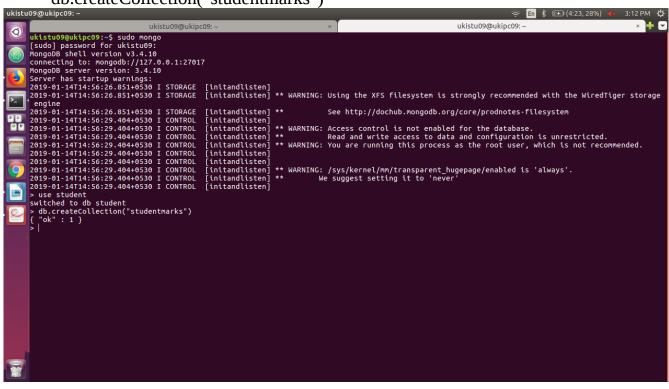
# MongoDB Exercise 2

#### 1) Create a Database called student

use student

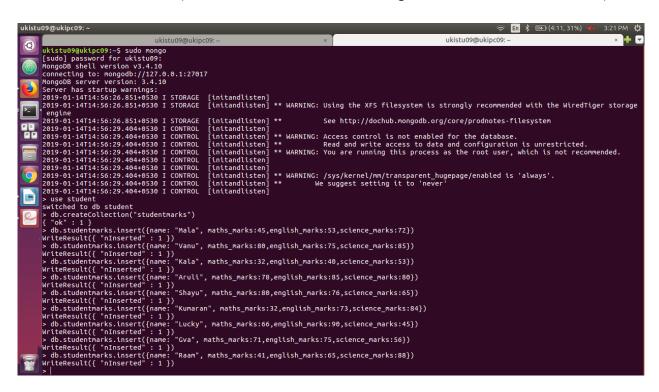


2) Create a collection called studentmarks db.createCollection("studentmarks")



#### 3) Create the documents listed in above table.

db.studentmarks.insert({name: "Mala",maths\_marks:45,english\_marks:53,science\_marks:72})
db.studentmarks.insert({name: "Vanu", maths\_marks:80,english\_marks:75,science\_marks:85})
db.studentmarks.insert({name: "Kala", maths\_marks:32,english\_marks:40,science\_marks:53})
db.studentmarks.insert({name: "Aruli", maths\_marks:78,english\_marks:85,science\_marks:80})
db.studentmarks.insert({name: "Shayu", maths\_marks:80,english\_marks:76,science\_marks:65})
db.studentmarks.insert({name: "Kumaran", maths\_marks:32,english\_marks:73,science\_marks:84})
db.studentmarks.insert({name: "Lucky", maths\_marks:66,english\_marks:90,science\_marks:45})
db.studentmarks.insert({name: "Gva", maths\_marks:71,english\_marks:75,science\_marks:56})
db.studentmarks.insert({name: "Raam", maths\_marks:41,english\_marks:65,science\_marks:88})



#### 4) Increase the maths marks of Mala by 6 marks

db.studentmarks.update({name : "Mala"},{\$inc:{maths\_marks:6,}})

```
Ukistuo9@ukipc09:-

Ukistu
```

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

db.studentmarks.find( { maths\_marks: { \$gt: 50 } } )

#### 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.

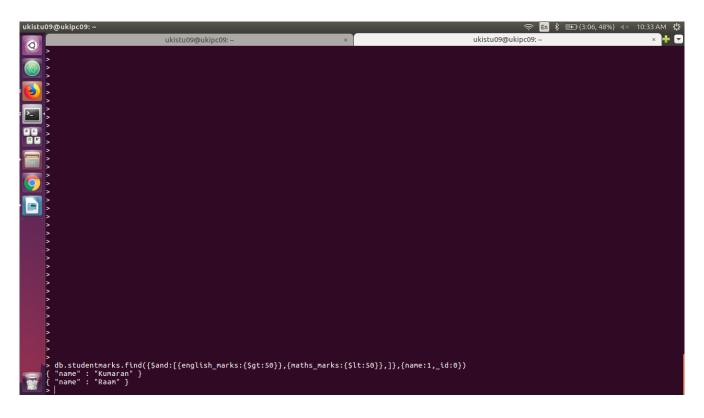
db.studentmarks.update({name:"Lucky"},{\$set:{"science\_marks":75}})

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

db.studentmarks.find({\$and:[{english\_marks:{\$gt:50}},{maths\_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:[ $\{$ english\_marks: $\{$ \$gt:50 $\}\}$ , $\{$ maths\_marks: $\{$ \$lt:50 $\}\}$ , $\{$ , $\{$ name:1,\_id:0 $\}\}$ 



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

 $db.studentmarks.find({\$and:[\{science\_marks:\{\$gt:40\}\},\{maths\_marks:\{\$lt:40\}\},]\},\{name:1,\_id:0\})}$ 

## 11) Remove Science column/field for Raam

db.studentmarks.update({name:"Raam"},{\$unset:{science\_marks:88}})

```
ukistu09@ukipc09:-

ukistu
```

12) Update John's Math mark as 87 and English mark as 23, if john not available upsert. db.studentmarks.update({name:"John"},{name:"John",maths\_marks:87,english\_marks:23}, {upsert:true})

```
ukistu09@ukipc09:-

ukistu
```

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

db.studentmarks.update({name:"John"},{\$rename:

{english\_marks:"science\_marks"}})

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

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

db.studentmarks.find({name:"Aruli"},{maths\_marks:1,science\_marks:1,\_id:0})

```
ukistu09@ukipc09:-

ukistu0e:-

uk
```