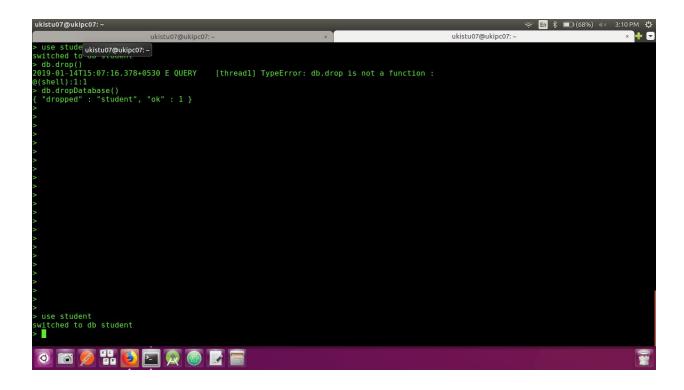
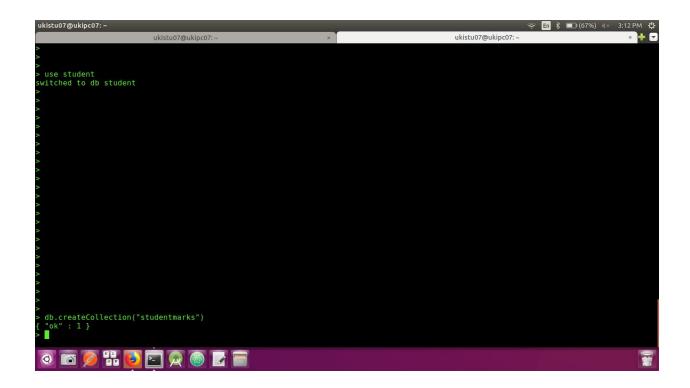
MongoDB Exercice 2

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})
WriteResult({ "nInserted" : 1 })
>
db.studentmarks.insert({"name":"Vanu","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 })
```

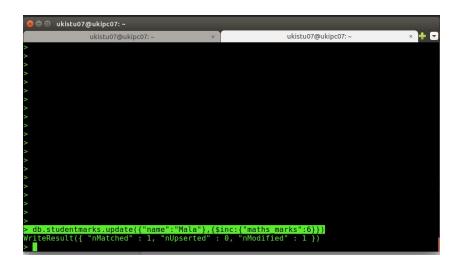
```
>
db.studentmarks.insert({"name":"Aruli","maths marks":78,"
english marks":85,"science marks":80})
WriteResult({ "nInserted" : 1 })
db.studentmarks.insert({"name":"Shayu","maths marks":8
0,"english marks":76,"science marks":65})
WriteResult({ "nInserted" : 1 })
>
db.studentmarks.insert({"name":"Kumaran","maths_marks
":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":"Raam","maths marks":4
1,"english marks":65,"science marks":88})
WriteResult({ "nInserted" : 1 })
>
```

```
ukistu07@ukipc07:-

ukistu
```

4) Increase the maths marks of Mala by 6 marks

>
db.studentmarks.update({"name":"Mala"},{\$inc:{"maths_m}
arks":6}})



- 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})

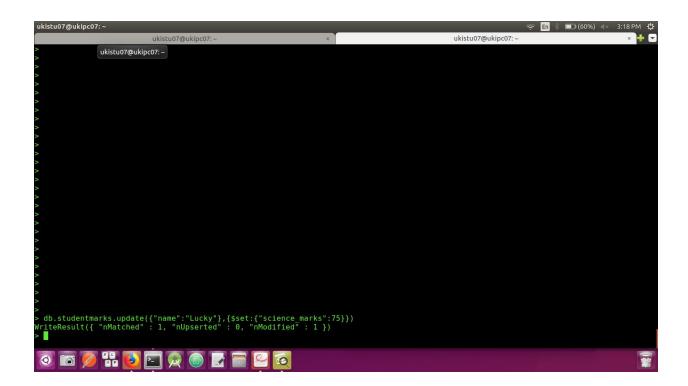
6)Add a new column(field) for Average for all students.

> db.studentmarks.aggregate({\$addFields:{"Average":""}}).pr etty()

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.

 $\label{thm:condition} db.studentmarks.find(\{\$and:[\{"english_marks":\{\$gt:50\}\},\{"science_marks":\{\$gt:50\}\},\{"name":1,_id:0\}) \\$

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

db.studentmarks.find({\$and:[{"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.

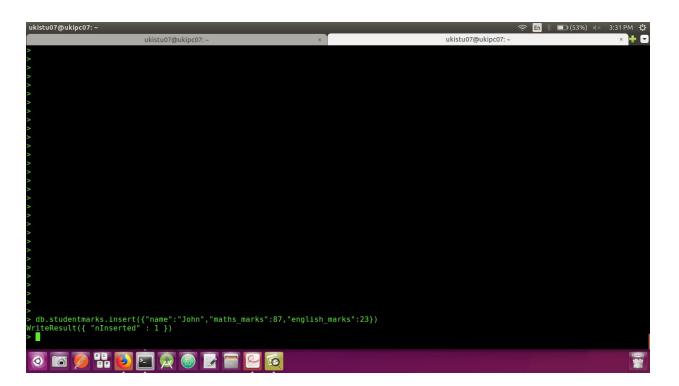
 $\label{thm:continuous} db.studentmarks.find({\$or:[{"maths_marks":{\$lt:40}},{"science_marks":{\$lt:40}}},{"name":1,_id:0})$

```
ukistuo7@ukipc07:-

ukist
```

11) Remove Science column/field for Raam

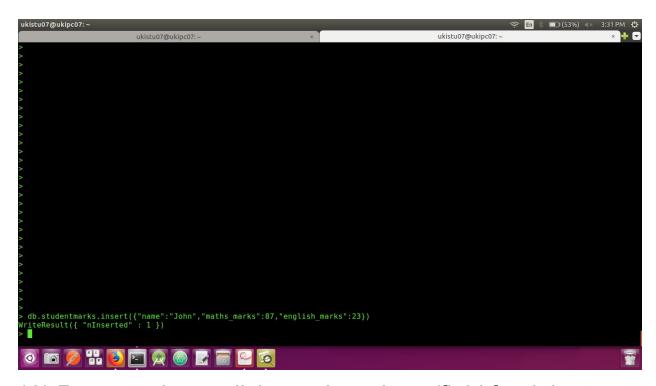
db.studentmarks.update({"name":"Raam"},{\$unset:{"science_m
arks":88}})



12) Update John's Math mark as 87 and English mark as

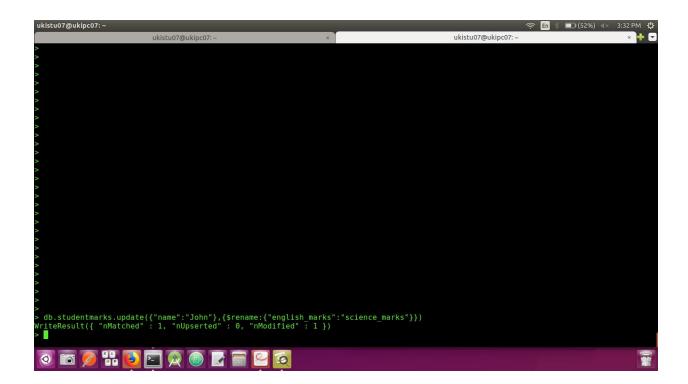
23, if john not available upsert.

db.studentmarks.insert({"name":"John","maths_marks":87,"english_m arks":23})



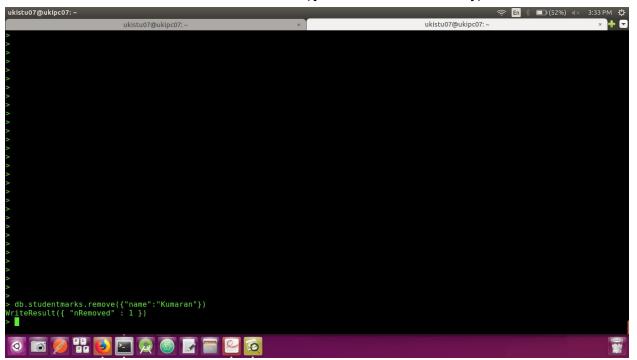
13) Rename the english_marks column/field for John to science_marks

db.studentmarks.update({"name":"John"},{\$rename:{"english_marks":"scien ce_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({\$or:[{"name":"Kala"},{"name":"Aruli"}]},{"maths_marks":1,"science_marks":1}).pretty()

