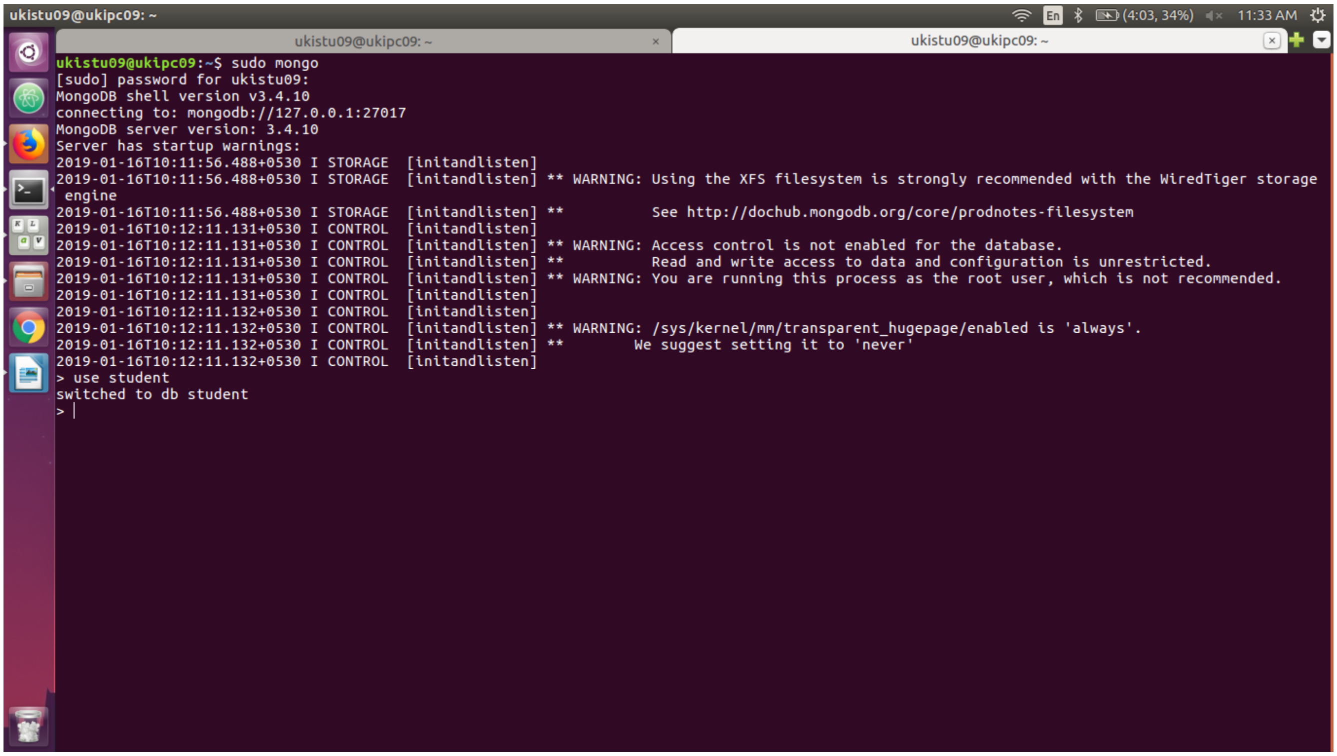
MongoDB Exercise 2

1) Create a Database called student

use student



```
ukistu09@ukipc09:~$ sudo mongo
[sudo] password for ukistu09:
MongoDB shell version v3.4.10
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.4.10
Server has startup warnings:
2019-01-16T10:11:56.488+0530 I STORAGE  [initandlisten]
2019-01-16T10:11:56.488+0530 I STORAGE  [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage
 engine
2019-01-16T10:11:56.488+0530 I STORAGE  [initandlisten] **          See http://dochub.mongodb.org/core/prodnotes-filesystem
2019-01-16T10:12:11.131+0530 I CONTROL  [initandlisten]
2019-01-16T10:12:11.131+0530 I CONTROL  [initandlisten] ** WARNING: Access control is not enabled for the database.
2019-01-16T10:12:11.131+0530 I CONTROL  [initandlisten] **          Read and write access to data and configuration is unrestricted.
2019-01-16T10:12:11.131+0530 I CONTROL  [initandlisten] ** WARNING: You are running this process as the root user, which is not recommended.
2019-01-16T10:12:11.131+0530 I CONTROL  [initandlisten]
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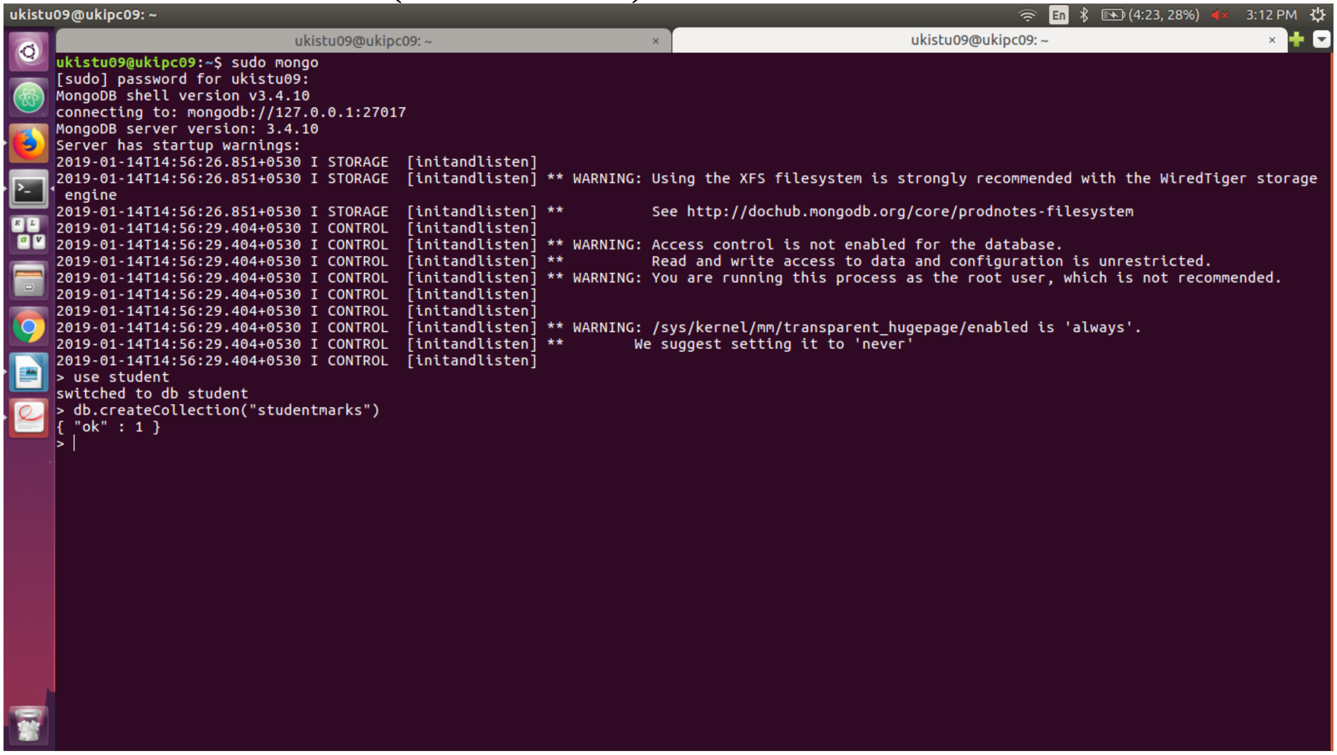
2019-01-16T10:12:11.132+0530 I CONTROL  [initandlisten] ** WARNING: /sys/kernel/mm/transparent_hugepage/enabled is 'always'.
2019-01-16T10:12:11.132+0530 I CONTROL  [initandlisten] **        We suggest setting it to 'never'
2019-01-16T10:12:11.132+0530 I CONTROL  [initandlisten]
> use student
switched to db student
> |
```

2) Create a collection called studentmarks

db.createCollection("studentmarks")



```
ukistu09@ukipc09:~$ sudo mongo
[sudo] password for ukistu09:
MongoDB shell version v3.4.10
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.4.10
Server has startup warnings:
2019-01-14T14:56:26.851+0530 I STORAGE  [initandlisten]
2019-01-14T14:56:26.851+0530 I STORAGE  [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage
 engine
2019-01-14T14:56:26.851+0530 I STORAGE  [initandlisten] **          See http://dochub.mongodb.org/core/prodnotes-filesystem
2019-01-14T14:56:29.404+0530 I CONTROL  [initandlisten]
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2019-01-14T14:56:29.404+0530 I CONTROL  [initandlisten]
> use student
switched to db student
> db.createCollection("studentmarks")
{ "ok" : 1 }
> |
```

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})

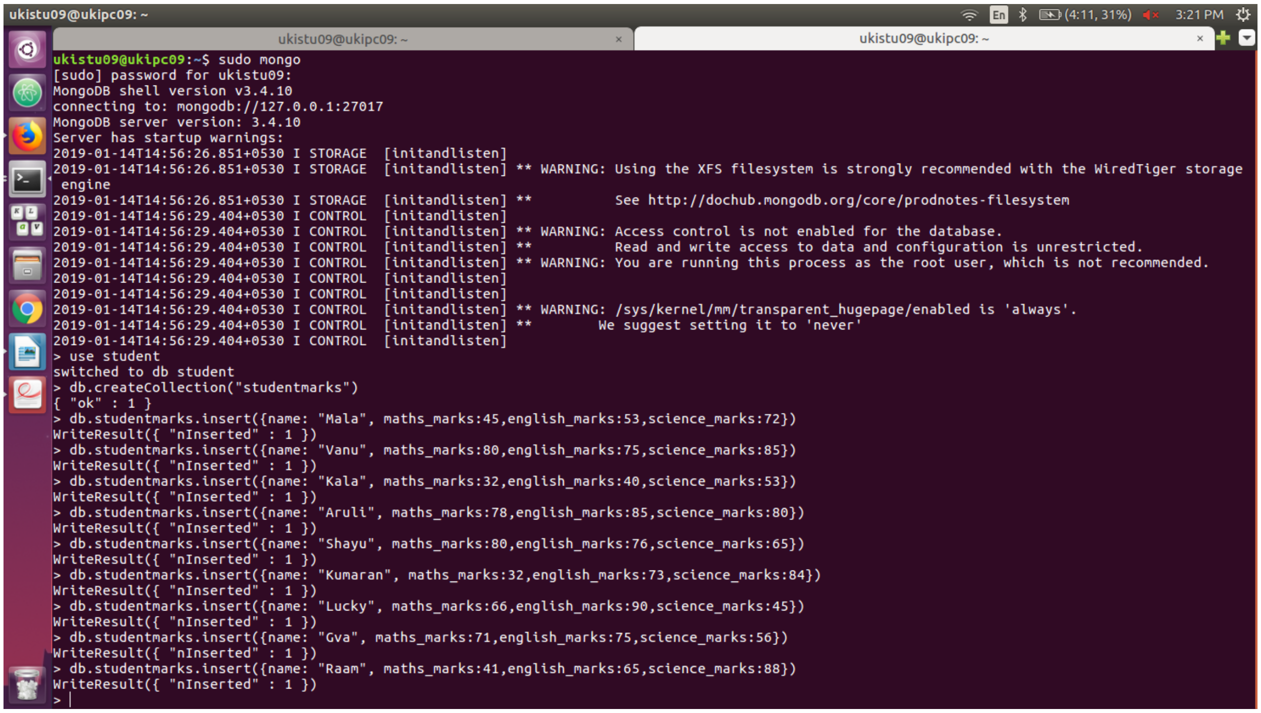
db.studentmarks.insert({name: "Shayu", maths_marks:80,english_marks:76,science_marks:65})

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})
```



```
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[sudo] password for ukistu09:
MongoDB shell version v3.4.10
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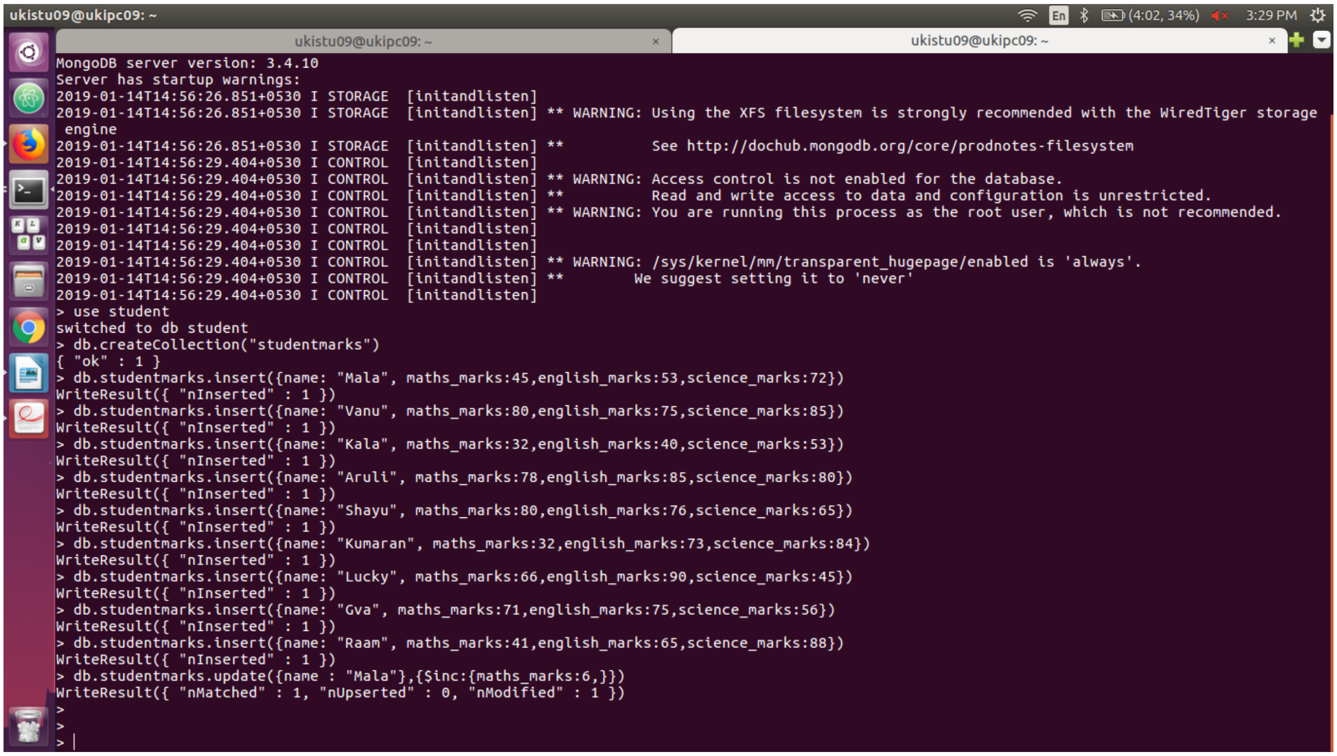
2019-01-14T14:56:29.404+0530 I CONTROL  [initandlisten]
> use student
switched to db student
> db.createCollection("studentmarks")
{ "ok" : 1 }
> db.studentmarks.insert({name: "Mala", maths_marks:45,english_marks:53,science_marks:72})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name: "Vanu", maths_marks:80,english_marks:75,science_marks:85})
WriteResult({ "nInserted" : 1 })
> db.studentmarks.insert({name: "Kala", maths_marks:32,english_marks:40,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: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: "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,}})
```



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MongoDB server version: 3.4.10
Server has startup warnings:
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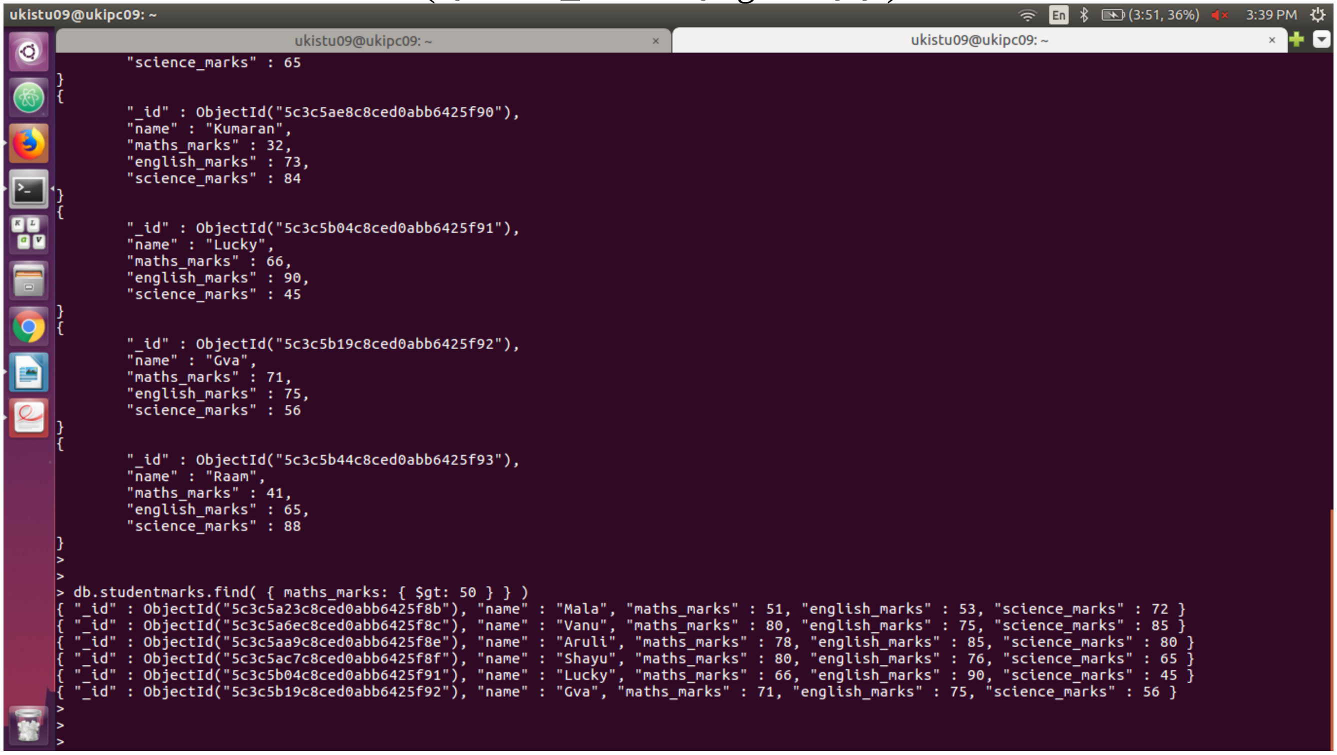
2019-01-14T14:56:29.404+0530 I CONTROL  [initandlisten] **        We suggest setting it to 'never'
2019-01-14T14:56:29.404+0530 I CONTROL  [initandlisten]
> use student
switched to db student
> db.createCollection("studentmarks")
{ "ok" : 1 }
> db.studentmarks.insert({name: "Mala", maths_marks:45,english_marks:53,science_marks:72})
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:40,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: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: "Raam", maths_marks:41,english_marks:65,science_marks:88})
WriteResult({ "nInserted" : 1 })
> 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.

```
db.studentmarks.find( { maths_marks: { $gt: 50 } } )
```



```
        "science_marks" : 65
}
{

        "_id" : ObjectId("5c3c5ae8c8ced0abb6425f90"),
        "name" : "Kumaran",
        "maths_marks" : 32,
        "english_marks" : 73,
        "science_marks" : 84
}
{

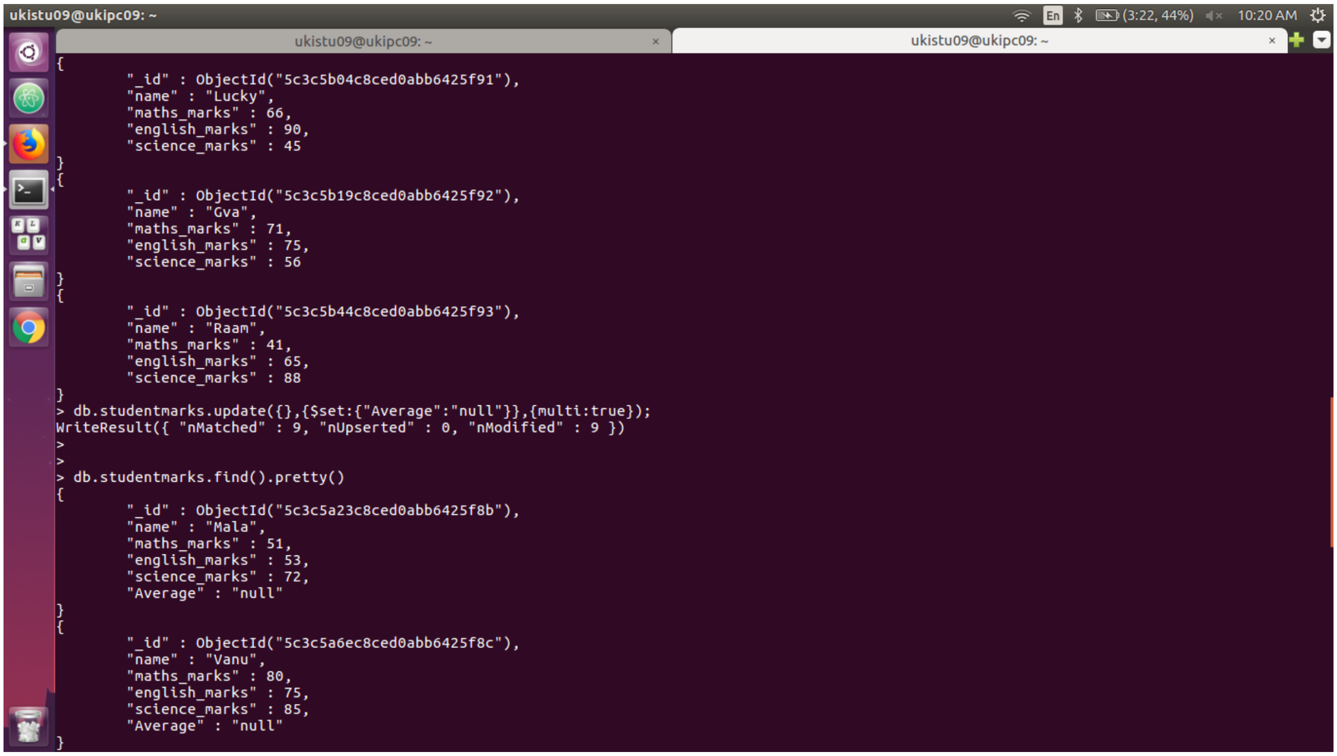
        "_id" : ObjectId("5c3c5b04c8ced0abb6425f91"),
        "name" : "Lucky",
        "maths_marks" : 66,
        "english_marks" : 90,
        "science_marks" : 45
}
{

        "_id" : ObjectId("5c3c5b19c8ced0abb6425f92"),
        "name" : "Gva",
        "maths_marks" : 71,
        "english_marks" : 75,
        "science_marks" : 56
}
{

        "_id" : ObjectId("5c3c5b44c8ced0abb6425f93"),
        "name" : "Raam",
        "maths_marks" : 41,
        "english_marks" : 65,
        "science_marks" : 88
}
>
>
> db.studentmarks.find( { maths_marks: { $gt: 50 } } )
{ "_id" : ObjectId("5c3c5a23c8ced0abb6425f8b"), "name" : "Mala", "maths_marks" : 51, "english_marks" : 53, "science_marks" : 72 }
{ "_id" : ObjectId("5c3c5a6ec8ced0abb6425f8c"), "name" : "Vanu", "maths_marks" : 80, "english_marks" : 75, "science_marks" : 85 }
{ "_id" : ObjectId("5c3c5aa9c8ced0abb6425f8e"), "name" : "Aruli", "maths_marks" : 78, "english_marks" : 85, "science_marks" : 80 }
{ "_id" : ObjectId("5c3c5ac7c8ced0abb6425f8f"), "name" : "Shayu", "maths_marks" : 80, "english_marks" : 76, "science_marks" : 65 }
{ "_id" : ObjectId("5c3c5b04c8ced0abb6425f91"), "name" : "Lucky", "maths_marks" : 66, "english_marks" : 90, "science_marks" : 45 }
{ "_id" : ObjectId("5c3c5b19c8ced0abb6425f92"), "name" : "Gva", "maths_marks" : 71, "english_marks" : 75, "science_marks" : 56 }
>
>
>
```

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

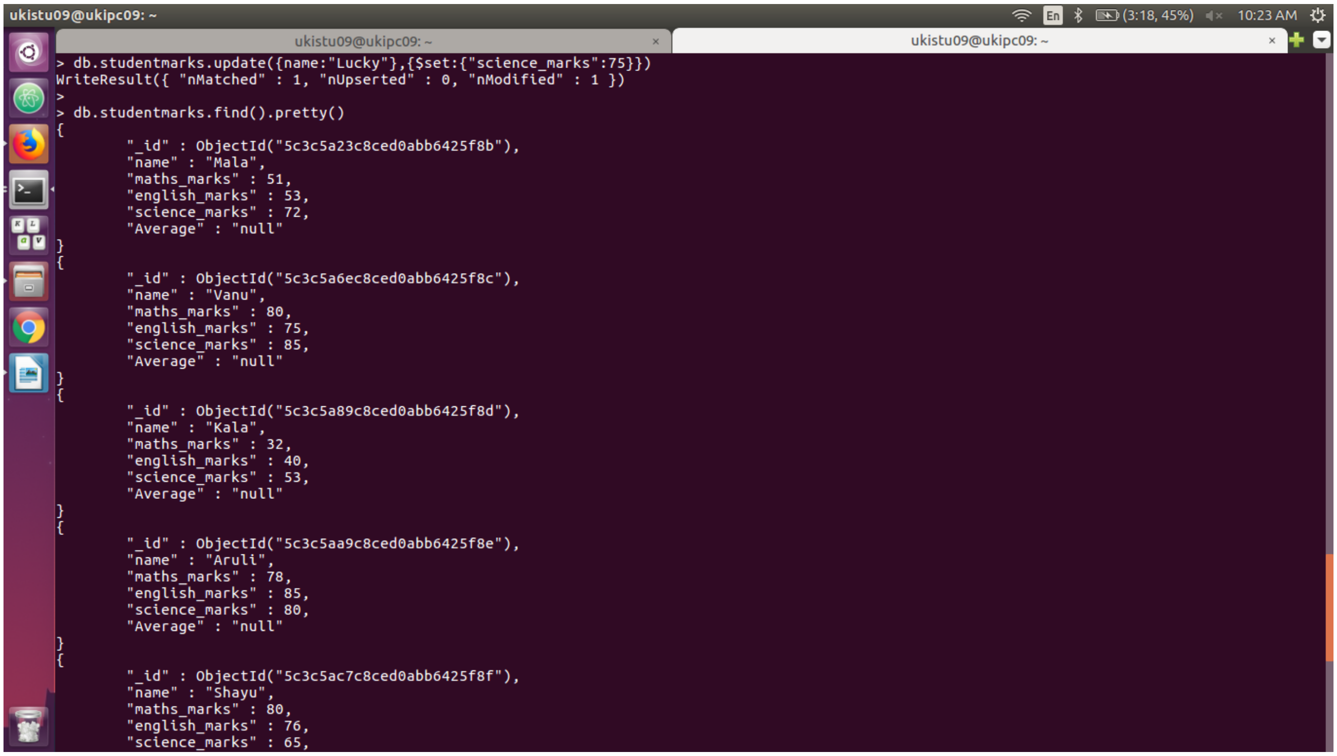
db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true})



```
{
        "_id" : ObjectId("5c3c5b04c8ced0abb6425f91"),
        "name" : "Lucky",
        "maths_marks" : 66,
        "english_marks" : 90,
        "science_marks" : 45
}
{
        "_id" : ObjectId("5c3c5b19c8ced0abb6425f92"),
        "name" : "Gva",
        "maths_marks" : 71,
        "english_marks" : 75,
        "science_marks" : 56
}
{
        "_id" : ObjectId("5c3c5b44c8ced0abb6425f93"),
        "name" : "Raam",
        "maths_marks" : 41,
        "english_marks" : 65,
        "science_marks" : 88
}
> db.studentmarks.update({},{$set:{"Average":"null"}},{multi:true});
WriteResult({ "nMatched" : 9, "nUpserted" : 0, "nModified" : 9 })
>
>
> db.studentmarks.find().pretty()
{
        "_id" : ObjectId("5c3c5a23c8ced0abb6425f8b"),
        "name" : "Mala",
        "maths_marks" : 51,
        "english_marks" : 53,
        "science_marks" : 72,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5a6ec8ced0abb6425f8c"),
        "name" : "Vanu",
        "maths_marks" : 80,
        "english_marks" : 75,
        "science_marks" : 85,
        "Average" : "null"
}
```

7) Update Marks_Science=75 to Lucky .

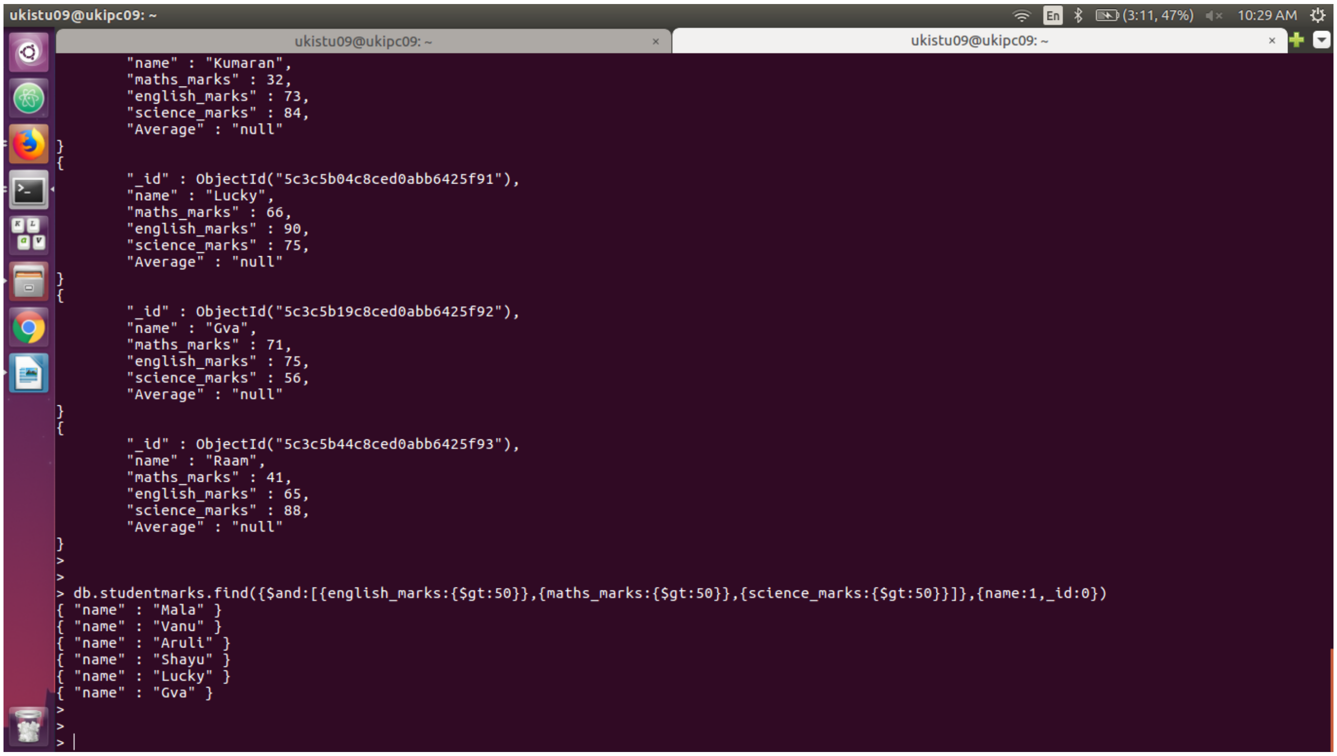
db.studentmarks.update({name:"Lucky"},{$set:{"science_marks":75}})



```
> db.studentmarks.update({name:"Lucky"},{$set:{"science_marks":75}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
> db.studentmarks.find().pretty()
{
        "_id" : ObjectId("5c3c5a23c8ced0abb6425f8b"),
        "name" : "Mala",
        "maths_marks" : 51,
        "english_marks" : 53,
        "science_marks" : 72,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5a6ec8ced0abb6425f8c"),
        "name" : "Vanu",
        "maths_marks" : 80,
        "english_marks" : 75,
        "science_marks" : 85,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5a89c8ced0abb6425f8d"),
        "name" : "Kala",
        "maths_marks" : 32,
        "english_marks" : 40,
        "science_marks" : 53,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5aa9c8ced0abb6425f8e"),
        "name" : "Aruli",
        "maths_marks" : 78,
        "english_marks" : 85,
        "science_marks" : 80,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5ac7c8ced0abb6425f8f"),
        "name" : "Shayu",
        "maths_marks" : 80,
        "english_marks" : 76,
        "science_marks" : 65,
```

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

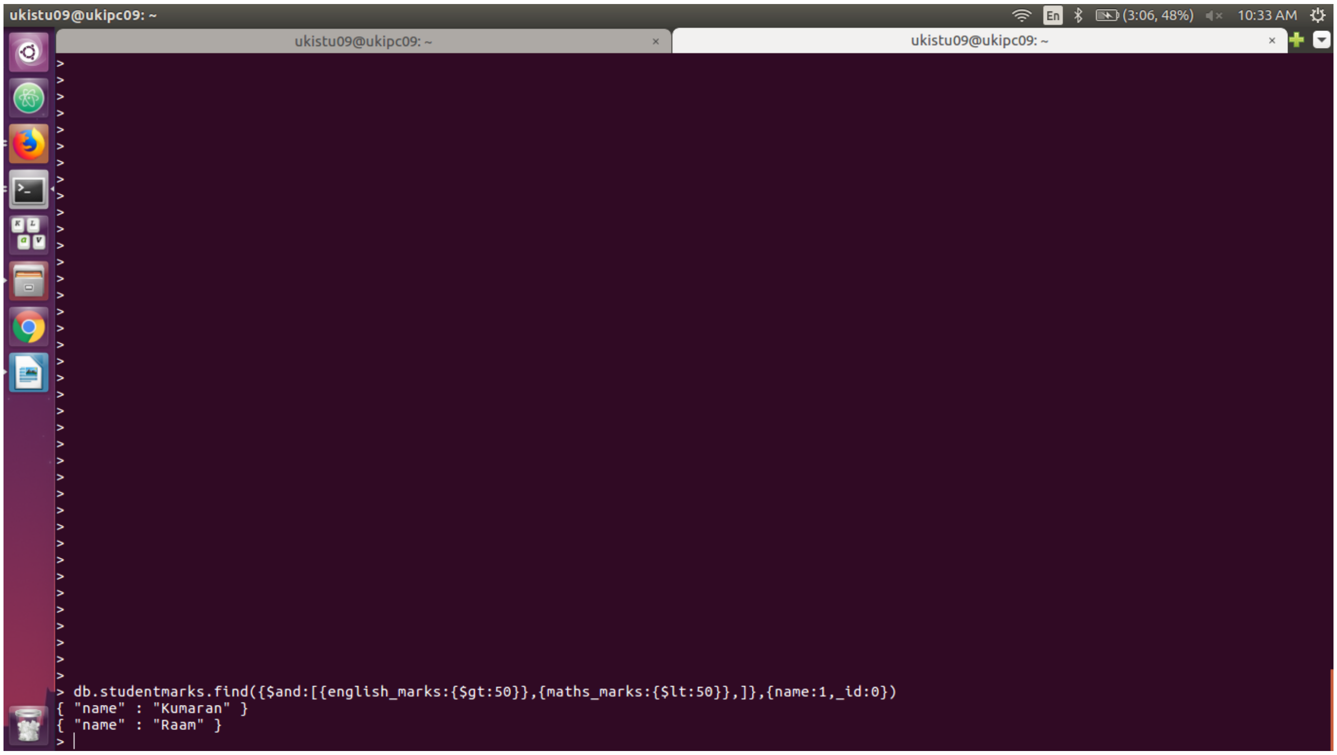
```
        db.studentmarks.find({$and:[{english_marks:{$gt:50}},{maths_marks:{$gt:50}},
{science_marks:{$gt:50}}]},{name:1,_id:0})
```



```
        "name" : "Kumaran",
        "maths_marks" : 32,
        "english_marks" : 73,
        "science_marks" : 84,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5b04c8ced0abb6425f91"),
        "name" : "Lucky",
        "maths_marks" : 66,
        "english_marks" : 90,
        "science_marks" : 75,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5b19c8ced0abb6425f92"),
        "name" : "Gva",
        "maths_marks" : 71,
        "english_marks" : 75,
        "science_marks" : 56,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5b44c8ced0abb6425f93"),
        "name" : "Raam",
        "maths_marks" : 41,
        "english_marks" : 65,
        "science_marks" : 88,
        "Average" : "null"
}
>
>
> db.studentmarks.find({$and:[{english_marks:{$gt:50}},{maths_marks:{$gt:50}},{science_marks:{$gt:50}}]},{name:1,_id:0})
{ "name" : "Mala" }
{ "name" : "Vanu" }
{ "name" : "Aruli" }
{ "name" : "Shayu" }
{ "name" : "Lucky" }
{ "name" : "Gva" }
>
>
> |
```

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})



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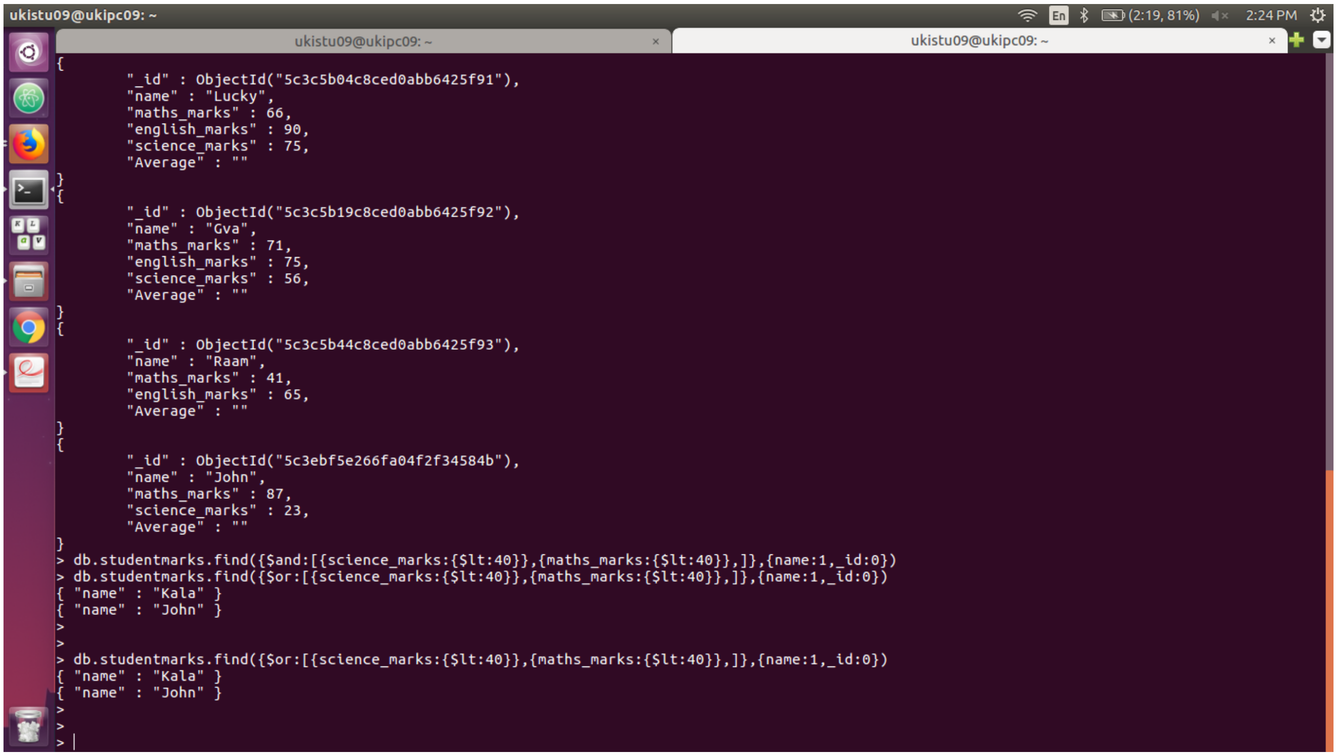
>
> db.studentmarks.find({$and:[{english_marks:{$gt:50}},{maths_marks:{$lt:50}},]},{name:1,_id:0})
{ "name" : "Kumaran" }
{ "name" : "Raam" }
> |
```

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

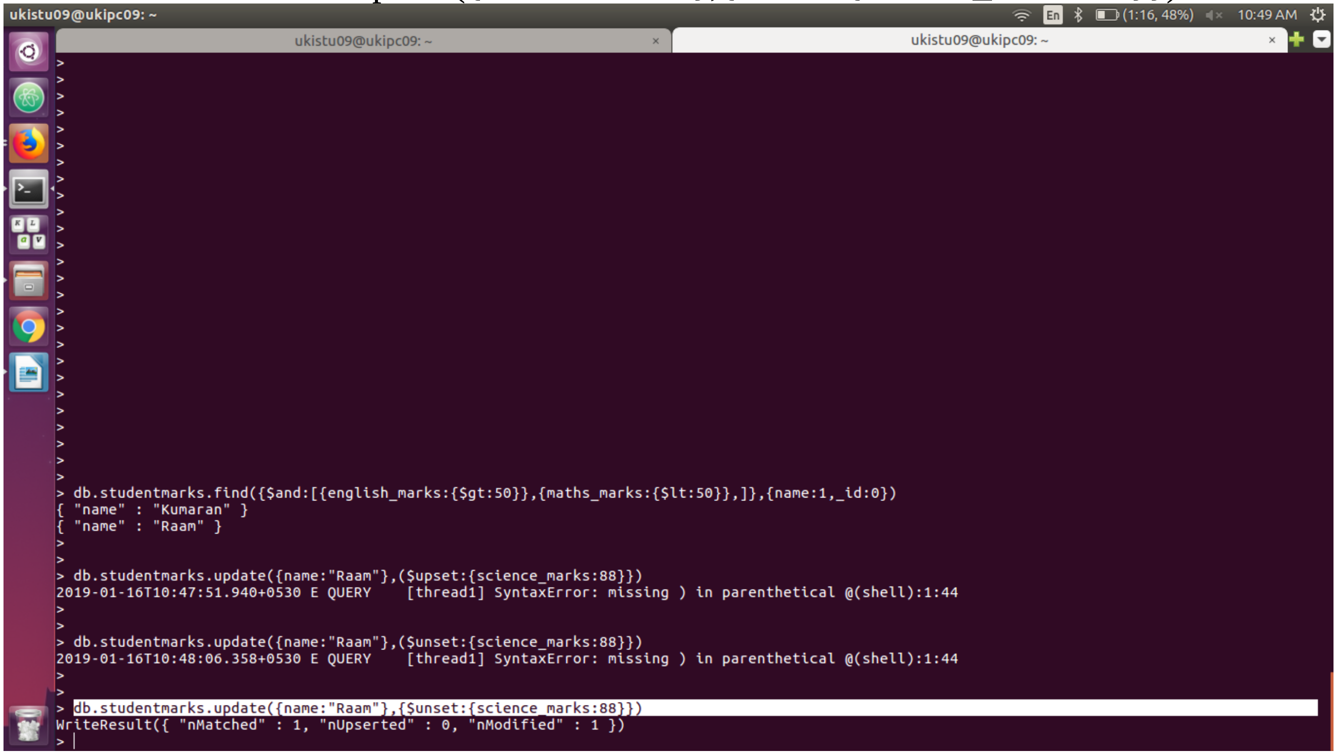
db.studentmarks.find({$and:[{science_marks:{$gt:40}},{maths_marks:{$lt:40}},]},{name:1,_id:0})



```
{
        "_id" : ObjectId("5c3c5b04c8ced0abb6425f91"),
        "name" : "Lucky",
        "maths_marks" : 66,
        "english_marks" : 90,
        "science_marks" : 75,
        "Average" : ""
}
{
        "_id" : ObjectId("5c3c5b19c8ced0abb6425f92"),
        "name" : "Gva",
        "maths_marks" : 71,
        "english_marks" : 75,
        "science_marks" : 56,
        "Average" : ""
}
{
        "_id" : ObjectId("5c3c5b44c8ced0abb6425f93"),
        "name" : "Raam",
        "maths_marks" : 41,
        "english_marks" : 65,
        "Average" : ""
}
{
        "_id" : ObjectId("5c3ebf5e266fa04f2f34584b"),
        "name" : "John",
        "maths_marks" : 87,
        "science_marks" : 23,
        "Average" : ""
}
> db.studentmarks.find({$and:[{science_marks:{$lt:40}},{maths_marks:{$lt:40}},]},{name:1,_id:0})
> db.studentmarks.find({$or:[{science_marks:{$lt:40}},{maths_marks:{$lt:40}},]},{name:1,_id:0})
{ "name" : "Kala" }
{ "name" : "John" }
>
>
> db.studentmarks.find({$or:[{science_marks:{$lt:40}},{maths_marks:{$lt:40}},]},{name:1,_id:0})
{ "name" : "Kala" }
{ "name" : "John" }
>
>
> |
```

11) Remove Science column/field for Raam

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



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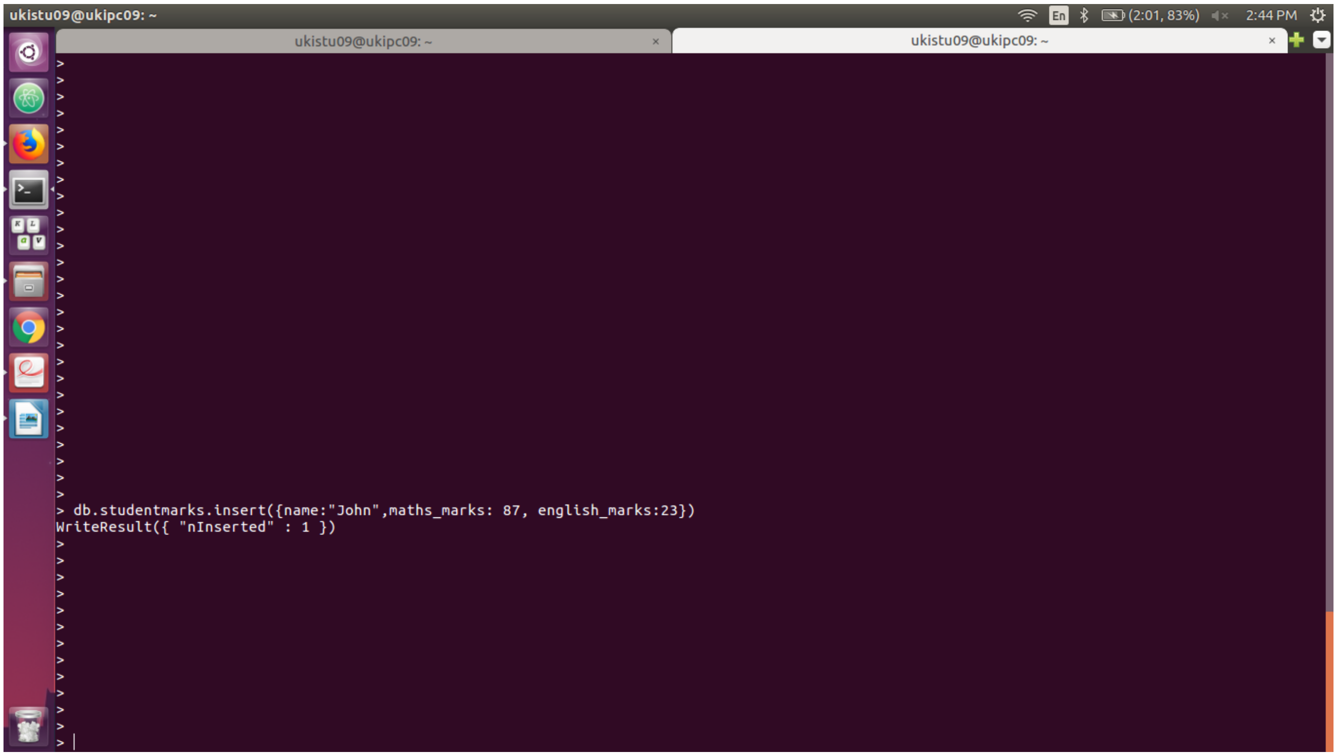
>
> db.studentmarks.find({$and:[{english_marks:{$gt:50}},{maths_marks:{$lt:50}},]},{name:1,_id:0})
{ "name" : "Kumaran" }
{ "name" : "Raam" }
>
>
> db.studentmarks.update({name:"Raam"},($upset:{science_marks:88}})
2019-01-16T10:47:51.940+0530 E QUERY    [thread1] SyntaxError: missing ) in parenthetical @(shell):1:44
>
>
> db.studentmarks.update({name:"Raam"},($unset:{science_marks:88}})
2019-01-16T10:48:06.358+0530 E QUERY    [thread1] SyntaxError: missing ) in parenthetical @(shell):1:44
>
>
> db.studentmarks.update({name:"Raam"},{$unset:{science_marks:88}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> |
```

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})



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>
> db.studentmarks.insert({name:"John",maths_marks: 87, english_marks:23})
WriteResult({ "nInserted" : 1 })
>
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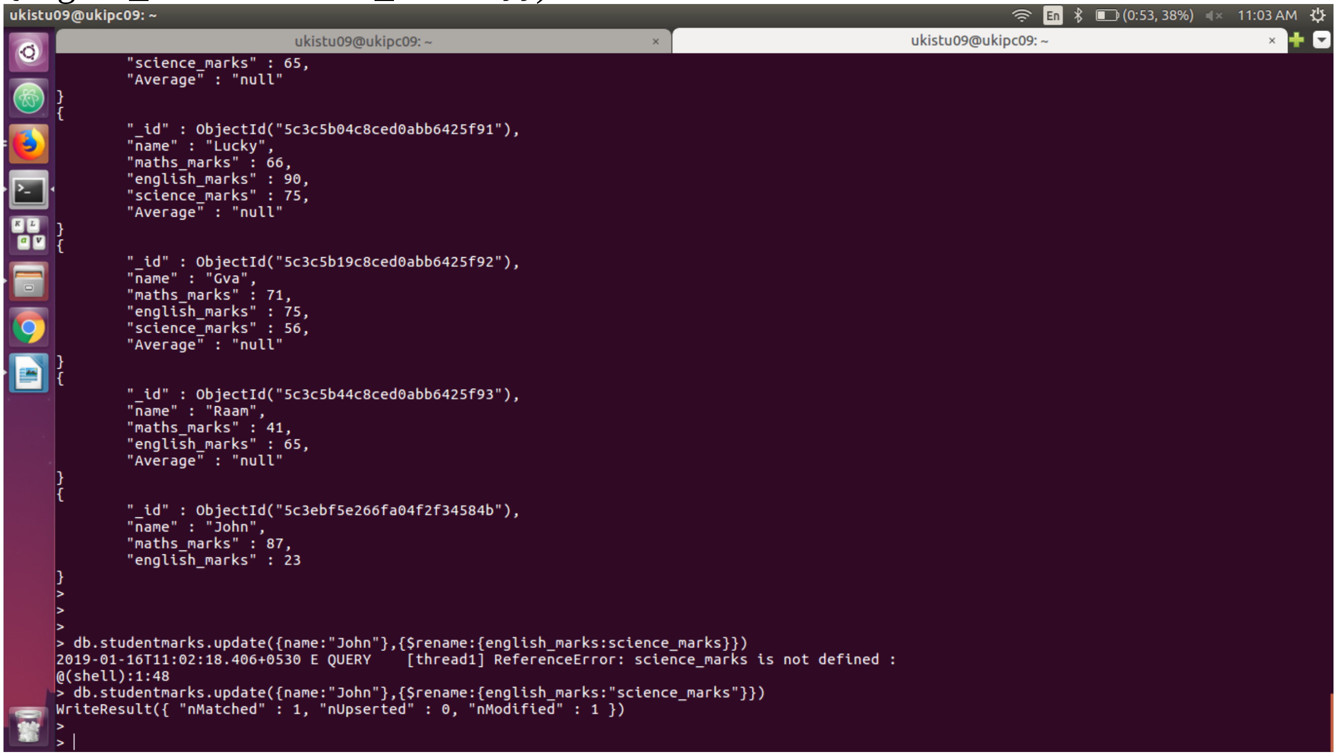
```

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

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



```
        "science_marks" : 65,
        "Average" : "null"
}
{

        "_id" : ObjectId("5c3c5b04c8ced0abb6425f91"),
        "name" : "Lucky",
        "maths_marks" : 66,
        "english_marks" : 90,
        "science_marks" : 75,
        "Average" : "null"
}
{

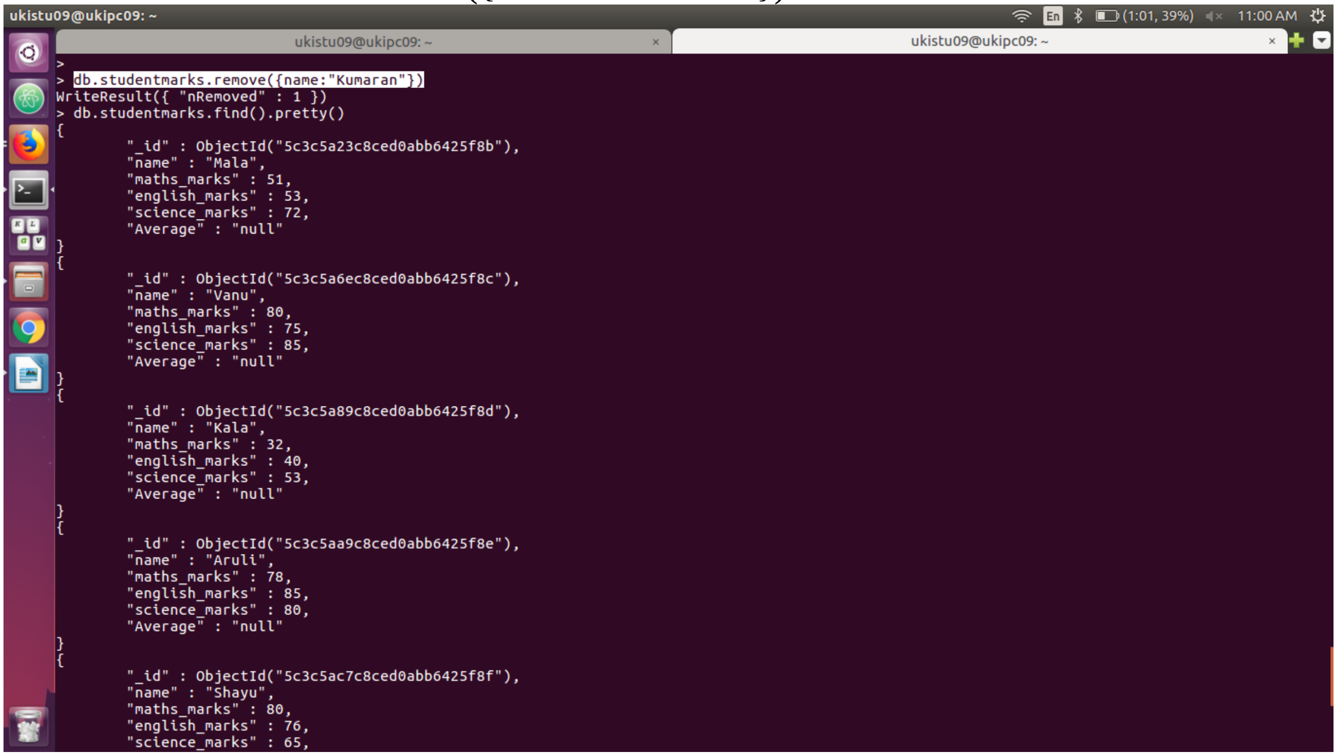
        "_id" : ObjectId("5c3c5b19c8ced0abb6425f92"),
        "name" : "Gva",
        "maths_marks" : 71,
        "english_marks" : 75,
        "science_marks" : 56,
        "Average" : "null"
}
{

        "_id" : ObjectId("5c3c5b44c8ced0abb6425f93"),
        "name" : "Raam",
        "maths_marks" : 41,
        "english_marks" : 65,
        "Average" : "null"
}
{

        "_id" : ObjectId("5c3ebf5e266fa04f2f34584b"),
        "name" : "John",
        "maths_marks" : 87,
        "english_marks" : 23
}
>
>
>
> db.studentmarks.update({name:"John"},{$rename:{english_marks:science_marks}})
2019-01-16T11:02:18.406+0530 E QUERY    [thread1] ReferenceError: science_marks is not defined :
@(shell):1:48
> db.studentmarks.update({name:"John"},{$rename:{english_marks:"science_marks"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
> |
```

14) Remove Kumaran’s document from collection

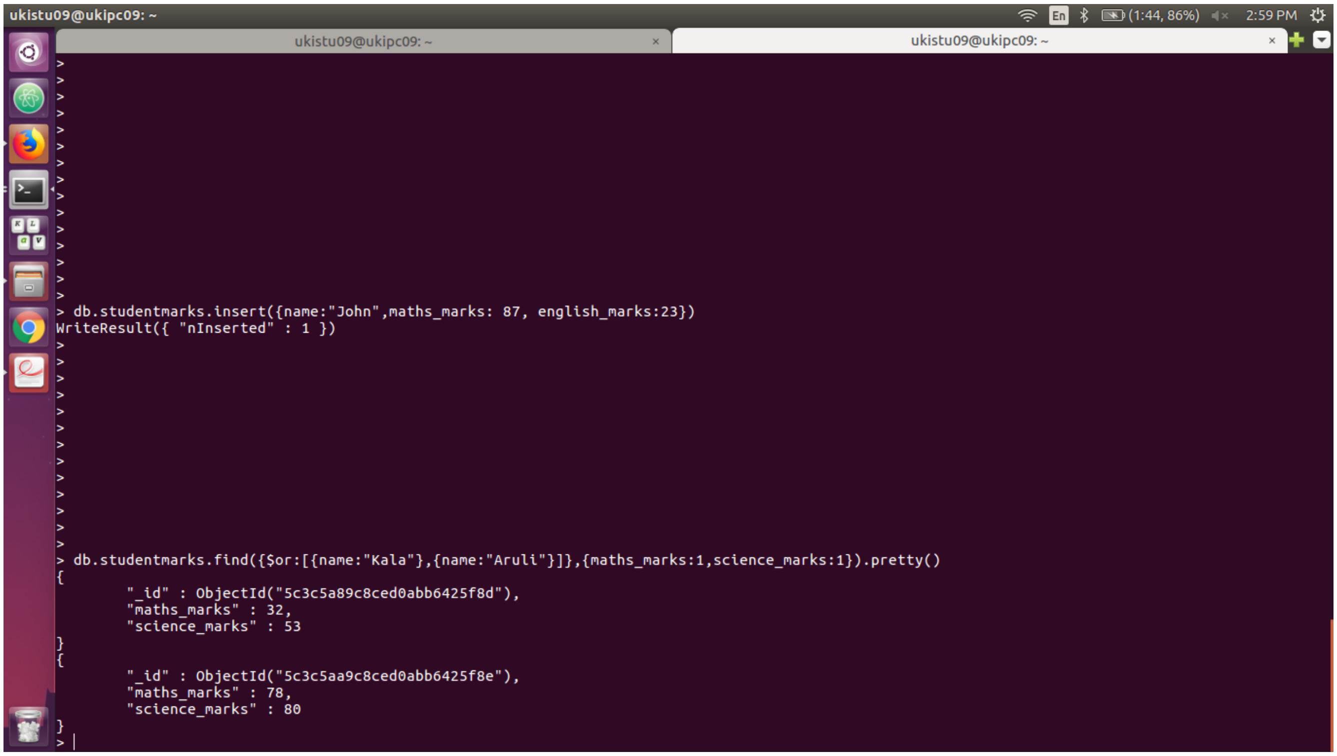
db.studentmarks.remove({name:"Kumaran"})



```
>
> db.studentmarks.remove({name:"Kumaran"})
WriteResult({ "nRemoved" : 1 })
> db.studentmarks.find().pretty()
{
        "_id" : ObjectId("5c3c5a23c8ced0abb6425f8b"),
        "name" : "Mala",
        "maths_marks" : 51,
        "english_marks" : 53,
        "science_marks" : 72,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5a6ec8ced0abb6425f8c"),
        "name" : "Vanu",
        "maths_marks" : 80,
        "english_marks" : 75,
        "science_marks" : 85,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5a89c8ced0abb6425f8d"),
        "name" : "Kala",
        "maths_marks" : 32,
        "english_marks" : 40,
        "science_marks" : 53,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5aa9c8ced0abb6425f8e"),
        "name" : "Aruli",
        "maths_marks" : 78,
        "english_marks" : 85,
        "science_marks" : 80,
        "Average" : "null"
}
{
        "_id" : ObjectId("5c3c5ac7c8ced0abb6425f8f"),
        "name" : "Shayu",
        "maths_marks" : 80,
        "english_marks" : 76,
        "science_marks" : 65,
```

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()



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>
>
> db.studentmarks.insert({name:"John",maths_marks: 87, english_marks:23})
WriteResult({ "nInserted" : 1 })
>
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>
>
> db.studentmarks.find({$or:[{name:"Kala"},{name:"Aruli"}]},{maths_marks:1,science_marks:1}).pretty()
{
        "_id" : ObjectId("5c3c5a89c8ced0abb6425f8d"),
        "maths_marks" : 32,
        "science_marks" : 53
}
{
        "_id" : ObjectId("5c3c5aa9c8ced0abb6425f8e"),
        "maths_marks" : 78,
        "science_marks" : 80
}
> |
```