```
import pymongo
client=pymongo.MongoClient("mongodb+srv://t23cs010:deibynta@cluster0.ugatn9a.m
ongodb.net/?retryWrites=true&w=majority")
```

```
db=client['mongodb']
```

```
collection = db["Student"]
```

1.Write a MongoDB query to find all students excluding _id and LastName Field

```
for i in db.Student.find({}, { "_id": 0, "LastName": 0 }):

print(i)

v 0.7s

{'RollNum': 43, 'FirstName': 'John', 'Age': 20, 'Department': 'Computer Science', 'Mark': 78}

{'RollNum': 67, 'FirstName': 'Alice', 'Age': 22, 'Department': 'Physics', 'Mark': 59}

{'RollNum': 23, 'FirstName': 'Bob', 'Age': 21, 'Department': 'Computer Science', 'Mark': 81}

{'RollNum': 18, 'FirstName': 'Eve', 'Age': 19, 'Department': 'Mathematics', 'Mark': 56}

{'RollNum': 84, 'FirstName': 'Mike', 'Age': 23, 'Department': 'Physics', 'Mark': 92}
```

2. Update the student's age with Rollnum 67 to 26 years.

```
db.Student.update_one({"RollNum": 67}, {"$set": {"Age": 26}})
   db.Student.find_one({"RollNum": 67})

$\square 0.2s$

{'_id': ObjectId('6548ccbd13bcdb7d44650429'),
   'RollNum': 67,
   'FirstName': 'Alice',
   'LastName': 'Smith',
   'Age': 26,
   'Department': 'Physics',
   'Mark': 59}
```

3. Increase the Age of all students by 1.

4. Increment 5 Mark for all students in the "Computer Science" department.

5. Reduce 10 Marks for all students in the "Mathematics" department.

6. Update the Department name of all students in the "Physics" department to "Physical Science".

```
db.Student.update_many({"Department": "Physics"}, {"$set": {"Department": "Physical Science"}})

for i in db.Student.find():
    print(i)

    1.6s

Python

{'_id': ObjectId('6548ccbd13bcdb7d44650428'), 'RollNum': 43, 'FirstName': 'John', 'LastName': 'Doe', 'Age': 21, 'Departmen'
{'_id': ObjectId('6548ccbd13bcdb7d44650429'), 'RollNum': 67, 'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 27, 'Departmen'
{'_id': ObjectId('6548ccbd13bcdb7d4465042a'), 'RollNum': 23, 'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 22, 'Departmen'
{'_id': ObjectId('6548ccbd13bcdb7d4465042b'), 'RollNum': 18, 'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 20, 'Departmen'
{'_id': ObjectId('6548ccbd13bcdb7d4465042b'), 'RollNum': 84, 'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 24, 'Department'
{'_id': ObjectId('6548ccbd13bcdb7d4465042c'), 'RollNum': 84, 'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 24, 'Department'
{'_id': ObjectId('6548ccbd13bcdb7d4465042c'), 'RollNum': 84, 'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 24, 'Department'
```

7. Calculate the average age of all students.

8. Calculate the average Mark of all students in the "Physical Science" department.

9. Remove all the students of the "Mathematics" department.

10. Remove all the students whose mark is less than 60.