PRACTIACL 1

PRACTICAL1(A)

Aim:- Write a MongoDB query to create and drop database

```
> use IF23045;
switched to db IF23045
> show dbs
IF23045 0.000GB
abc
        0.000GB
admin
       0.000GB
config 0.000GB
local 0.000GB
> db.mycol.insert{{"college":"MKS"}}
2025-07-15T10:20:40.830+0530 E QUERY
                                       [js] SyntaxError: missing; before statement @(shell):1:15
> db.mycol.insert({"college":"MKS"})
WriteResult({ "nInserted" : 1 })
> show dbs
IF23045 0.000GB
        0.000GB
abc
admin
       0.000GB
config 0.000GB
        0.000GB
local
> use IF23045
switched to db IF23045
> db.dropDatabase()
{ "ok" : 1 }
> show dbs
abc 0.000GB
admin 0.000GB
config 0.000GB
local 0.000GB
```

PRACTICAL1(B)

Aim: Write a MongoDB query to create, display and drop collection

PRACTICAL 1(C)

Aim: Write a MongoDB guery to insert, guery, update and delete a document.

```
> use mks
switched to db mks
> db.student.insert({"name":"Shruti"})
WriteResult({ "nInserted" : 1 })
> mydoc = {"name":"Shruti","roll":45}
{ "name" : "Shruti", "roll" : 45 }
> db.student.insert(mydoc)
WriteResult({ "nInserted" : 1 })
> db.student.update({"name":"Shruti"},{"name":"Smriti"})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.student.insert({"name":"Nikita","subject":"IT"})
WriteResult({ "nInserted" : 1 })
> db.student.insert({"name":"Disha","subject":"IT"})
WriteResult({ "nInserted" : 1 })
> db.student.insert({"name":"Lavanya","subject":"IT"})
WriteResult({ "nInserted" : 1 })
> db.student.find({"subject":"IT"})
{ "_id" : ObjectId("6875e4e86d7441fce9665845"), "name" : "Nikita", "subject" : "IT" }
{ "_id" : ObjectId("6875e4f66d7441fce9665846"), "name" : "Disha", "subject" : "IT" }
{ "_id" : ObjectId("6875e5276d7441fce9665847"), "name" : "Lavanya", "subject" : "IT" }
> db.student.remove({"name":"Smriti})
2025-07-15T10:52:09.837+0530 E QUERY
                                        [js] SyntaxError: unterminated string literal @(shell):1:26
> db.student.remove({"name":"Smriti"})
WriteResult({ "nRemoved" : 1 })
```

Aim: Simple Queries with MongoDB

PRACTICAL3(A)

Aim: Write a MongoDB query to use sum, avg, min and max expression.

```
> use IF23043
switched to db IF23043
> show collections
Company
Student
```

```
> db.Company.find()
{ "_id" : ObjectId("687f148088af3c48c76f34d1"), "product" : "Apple", "Total" : 10, "customer" : "ABC" }
{ "_id" : ObjectId("687f148088af3c48c76f34d2"), "product" : "Banana", "Total" : 20, "customer" : "DEF" }
{ "_id" : ObjectId("687f148088af3c48c76f34d3"), "product" : "Banana", "Total" : 15, "customer" : "ABC" }
{ "_id" : ObjectId("687f148088af3c48c76f34d4"), "product" : "Apple", "Total" : 25, "customer" : "GHI" }
```

SUM:-

MIN:-

MAX:-

AVERAGE:-

PRACTICAL3(B)

Aim:- Write a MongoDB query to use push and addToSet expression.

PUSH:-

AddToSet:-

PRACTICAL 3(C)

Aim:- Write a MongoDB query to use first and last expression.

\$first:-

```
> db.Company.aggregate(
... [
... { $sort:{customer:1}},
... {
... $group:
... {
... _id:"$product",
... firstItemTotal:{$first:"$Total"}
... }
... }
... }
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\$last:-

```
> db.Company.aggregate(
... [
... { $sort:{customer:1}},
... {
... $group:
... {
... _id:"$product",
... firstItemTotal:{$last:"$Total"}
... }
... }
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PRACTIACL 4(A)

Aim:- Write a MongoDB query to create a backup of existing database.

Backup:-

```
C:\Program Files>cd MongoDB
C:\Program Files\MongoDB>cd server
C:\Program Files\MongoDB\Server>cd 4.0
C:\Program Files\MongoDB\Server\4.0>cd bin
C:\Program Files\MongoDB\Server\4.0\bin>mongodump --db IF23043
                                                                --out D:/Backup
                                writing IF23043.Student to D:\Backup\IF23043\Student.bson
2025-07-22T11:19:29.363+0530
2025-07-22T11:19:29.364+0530
                                writing IF23043.Company to D:\Backup\IF23043\Company.bson
                                writing IF23043.test to D:\Backup\IF23043\test.bson
2025-07-22T11:19:29.364+0530
2025-07-22T11:19:29.367+0530
                                done dumping IF23043.Company (4 documents)
                                done dumping IF23043.test (1 document)
2025-07-22T11:19:29.368+0530
2025-07-22T11:19:29.377+0530
                                done dumping IF23043.Student (3 documents)
C:\Program Files\MongoDB\Server\4.0\bin>mongodump --db IF23043 --collection Student --out D:/Backup
2025-07-22T11:20:34.399+0530
                                writing IF23043.Student to D:\Backup\IF23043\Student.bson
2025-07-22T11:20:34.400+0530
                                done dumping IF23043. Student (3 documents)
C:\Program Files\MongoDB\Server\4.0\bin>_
```

PRACTICAL 4(B)

Aim:- Write a MongoDB query to restore database from the backup.

Restore:-

```
C:\Program Files\MongoO8\Server\4.0\bin>mongorestore D:/Backup
2025-07-22711:26:08.059+0530 preparing collections to restore from
                                       don't know what to do with file "D:\Backup\IF23043\prelude.json", skipping...
2025-07-22711:26:08.059+0530
2025-07-22711:26:08.059+0530
                                       reading metadata for IF23043.Student from D:\Backup\IF23043\Student.metadata.json
2025-07-22711:26:08.060+0530
                                        restoring to existing collection IF23043. Student without dropping
2025-07-22711:26:08.060+0530
                                       restoring IF23043.Student from D:\Backup\IF23043\Student.bson
                                       continuing through error: E11000 duplicate key error collection: IF23043.Student index: _id_ dup key: { _id: ObjectId('6875e58ba07241f25be0987a') continuing through error: E11000 duplicate key error collection: IF23043.Student index: _id_ dup key: { _id: ObjectId('6875e6bba07241f25be0987c') continuing through error: E11000 duplicate key error collection: IF23043.Student index: _id_ dup key: { _id: ObjectId('6875ec6ea07241f25be0987d')
2025-07-22711:26:08.078+0530
2025-07-22711:26:08.078+0530
2025-07-22711:26:08.078+0530
2025-07-22711:26:08.078+0530
                                       finished restoring IF23043. Student (0 documents, 3 failures)
                                       no indexes to restore for collection IF23043.Student
2025-07-22T11:26:08.078+0530
2025-07-22711:26:08.078+0530
                                       0 document(s) restored successfully. 3 document(s) failed to restore.
 :\Program Files\MongoOB\Server\4.0\bin>
```

Aim:- Connecting Java with MongoDB and inserting, retrieving, updating and deleting.

CreateCollection -

InsertCollection-

UpdateCollection-

```
Edit View
import com.mongodb.client.*;
import com.mongodb.client.model.Filters;
import com.mongodb.client.model.Updates;
import org.bson.Document;
public class MongoDBUpdateExample {
    public static void main(String[] args) {
        // Connect to MongoDB
        try (MongoClient mongoClient = MongoClients.create("mongodb://localhost:27017")) {
            // Access the database and collection
            MongoDatabase database = mongoClient.getDatabase("mydb");
            MongoCollection<Document> collection = database.getCollection("employees");
            // Update one document where name is "Alice Smith"
            collection.updateOne(
                    Filters.eq("name", "Alice Smith"), // Filter
Updates.set("salary", 70000) // Update
                                                           // Update operation
            System.out.println("Update operation completed.");
        } catch (Exception e)
            e.printStackTrace();
```

ViewCollection-

```
MongoDBCreateCollection.java
                         MongoDBViewCollectionExample.i X MongoDBInsertExample.iava
                                                                     MongoDBUpdateExample.iava
                                                                                          MongoDBDeleteExample.iav
   Edit
import com.mongodb.client.*;
import org.bson.Document;
public class MongoDBViewCollectionExample {
    public static void main(String[] args) {
        // Connect to MongoDB
        try (MongoClient mongoClient = MongoClients.create("mongodb://localhost:27017")) {
             // Access the database and collection
             MongoDatabase database = mongoClient.getDatabase("mydb");
             MongoCollection<Document> collection = database.getCollection("employees");
             // Retrieve and print all documents in the collection
             FindIterable<Document> documents = collection.find();
             System.out.println("Documents in 'employees' collection:");
             for (Document doc : documents) {
                 System.out.println(doc.toJson());
        } catch (Exception e) {
            e.printStackTrace();
```

DeleteCollection-

```
MongoDBCreateCollection.java
                         MongoDBViewCollectionExample.java MongoDBInsertExample.java
                                                                      Mongo DBUpdate Example.java
                                                                                            Mongo DBD elete Example. java
File Fdit View
import com.mongodb.client.*;
import com.mongodb.client.model.Filters;
import org.bson.Document;
public class MongoDBDeleteExample {
    public static void main(String[] args) {
         // Connect to MongoDB
         try (MongoClient mongoClient = MongoClients.create("mongodb://localhost:27017")) {
             // Access the database and collection
             MongoDatabase database = mongoClient.getDatabase("mydb");
             MongoCollection<Document> collection = database.getCollection("employees");
             // Delete one document where name is "Alice Smith"
             collection.deleteOne(Filters.eq("name", "Alice Smith"));
             System.out.println("Document deleted successfully (if it existed).");
         } catch (Exception e) {
             e.printStackTrace();
```

OUTPUT-

```
Command Prompt
 (c) Microsoft Corporation. All rights reserved.
C:\Users\Admin>d:
D:\>cd Java
D:\Java>javac -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBCreateCollection.java
D:\Java>java -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBCreateCollection Aug 12, 2025 11:19:28 AM com.mongodb.internal.diagnostics.logging.Loggers shouldUseSLF4J WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component Collection 'employees' created successfully in database: mydb
D:\Java>show dbs 'show' is not recognized as an internal or external command, operable program or batch file.
D:\Java>javac -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBInsertExample.java
D:\Java>java -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBInsertExample
Aug 12, 2025 11:27:20 AM com.mongodb.internal.diagnostics.logging.Loggers shouldUseSLF4J
WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
Document inserted successfully into collection: mydb.employees
D:\Java>javac -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBUpdateExample.java
D:\Java>java -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBUpdateExample Aug 12, 2025 11:33:41 AM com.mongodb.internal.diagnostics.logging.Loggers shouldUseSLF4J WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
Update operation completed.
D:\Java>javac -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBViewCollwctionExample.java error: file not found: MongoDBViewCollwctionExample.java
Usage: javac <options> <source files>
use --help for a list of possible options
D:\Java>javac -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBViewCollectionExample.java
D:\Java>java -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBViewCollectionExample
Aug 12, 2025 11:36:29 AM com.mongodb.internal.diagnostics.logging.Loggers shouldUseSLF4J
WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
Documents in 'employees' collection:
                            "689ad7c0c7543519a5b3f345"}, "name": "Alice Smith", "age": 30, "department": "HR", "salary": 70000}
D:\Java>javac -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBDeleteExample.java
D:\Java>java -cp ".;bson-5.3.0.jar;mongodb-driver-core-4.10.0.jar;mongodb-driver-sync-4.10.0.jar" MongoDBDeleteExample Aug 12, 2025 11:37:12 AM com.mongodb.internal.diagnostics.logging.Loggers shouldUseSLF4J WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
 Document deleted successfully (if it existed).
```

PRACTICAL 6 / PRACTICAL 7

Aim: Connecting Python with MongoDB and inserting, retrieving, updating and deleting.

```
Command Prompt
Microsoft Windows [Version 10.0.22631.5624]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Admin>cd C:\Users\Admin\AppData\Local\Programs\Python\Python313
C:\Users\Admin\AppData\Local\Programs\Python\Python313>pip install pymongo-4.13.2-cp313-cp313-win_amd64.whl
Processing c:\users\admin\appdata\local\programs\python\python313\pymongo-4.13.2-cp313-cp313-win_amd64.whl
Collecting dnspython<3.0.0,>=1.16.0 (from pymongo==4.13.2)
 Downloading dnspython-2.7.0-py3-none-any.whl.metadata (5.8 kB)
Downloading dnspython-2.7.0-py3-none-any.whl (313 kB)
Installing collected packages: dnspython, pymongo
Successfully installed dnspython-2.7.0 pymongo-4.13.2
C:\Users\Admin\AppData\Local\Programs\Python\Python313>
```

INSFRT.PY:

```
🚵 *insert.py - C:/Users/Admin/AppData/Local/Programs/Python/Python313/insert.py (3.13.5)*
File Edit Format Run Options Window Help
import pymongo
myclient =pymongo.MongoClient("mongodb://localhost:27017/")
mydb=myclient["mydatabase45"]
mycol=mydb["customers"]
mvdict={"name":"XYZ", "address": "Highway 37"}
x=mycol.insert one(mydict)
print (x.inserted id)
for x in mycol.find():
    print(x)
```

OUTPUT:

```
688851b45aedc526cf208243
{' id': ObjectId('688851b45aedc526cf208243'), 'name': 'XYZ', 'address': 'Highway 37'}
```

```
> use mydatabase45
 switched to db mydatabase45
 > db.customers.find().pretty()
 {
          "_id" : ObjectId("688851b45aedc526cf208243"),
          "name": "XYZ",
          "address" : "Highway 37"
UPDATE.PY:-
🔒 update.py - C:/Users/Admin/AppData/Local/Programs/Python/Python313/update.py (3.13.5)
File Edit Format Run Options Window Help
import pymongo
myclient =pymongo.MongoClient("mongodb://localhost:27017/")
mydb=myclient["mydatabase45"]
mycol=mydb["customers"]
myquery={"address":"Highway 37"}
newvalues={"$set":{"address":"Mumbai"}}
mycol.update one(myquery, newvalues)
for x in mycol.find():
    print(x)
OUTPUT:-
                            {' id': ObjectId('688851b45aedc526cf208243'), 'name': 'XYZ', 'address': 'Mumbai'}
======== RESTART: C:/Users/Admin/AppData/Local/Program
 db.customers.find()
 "_id" : ObjectId("688851b45aedc526cf208243"), "name" : "XYZ", "address" : "Mumbai" }
```

RETRIEVE.PY:-

```
🔒 retrieve.py - C:/Users/Admin/AppData/Local/Programs/Python/Python313/retrieve.py (3.13.5)
File Edit Format Run Options Window Help
import pymongo
myclient =pymongo.MongoClient("mongodb://localhost:27017/")
mydb=myclient["mydatabase45"]
mycol=mydb["customers"]
for x in mycol.find():
     print(x)
OUTPUT:-
======== RESTART: C:/Users/Admin/AppData/l
{' id': ObjectId('688851b45aedc526cf208243'), 'name': 'XYZ', 'address': 'Mumbai'}
DELETE.PY-
delete.py - C:/Users/Admin/AppData/Local/Programs/Python/Python313/delete.py (3.13.5)
File Edit Format Run Options Window Help
import pymongo
```

```
myclient =pymongo.MongoClient("mongodb://localhost:27017/")
mydb=myclient["mydatabase45"]
mycol=mydb["customers"]
myquery={"address":"Mumbai"}
mycol.delete many (myquery)
print('Document deleted')
```

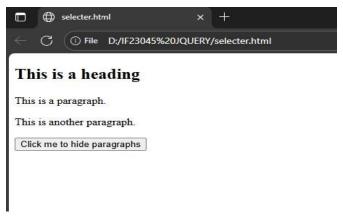
Document deleted

```
> use mydatabase45
switched to db mydatabase45
> db.customers.find().pretty()
```

PRACTICAL 8 (A)

Aim: ¡Query Basic, ¡Query Events

JQUERY SELECTER:-



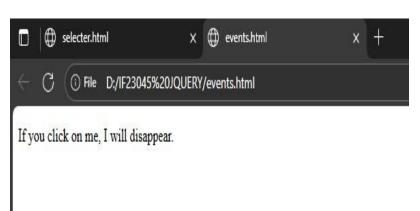


This is a heading

Click me to hide paragraphs

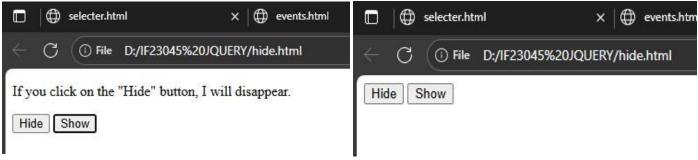
JQUERY EVENTS:-





PRACTICAL 8(B)

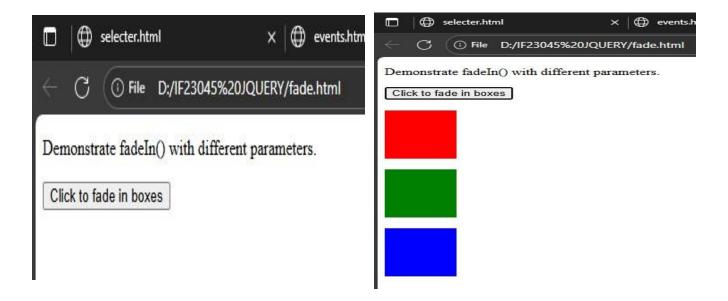
Aim:- jQuery Selectors, jQuery Hide and Show effects



PRACTICAL 8(C)

Aim: jQuery fading effects, jQuery Sliding effects

JQUERY FADE-



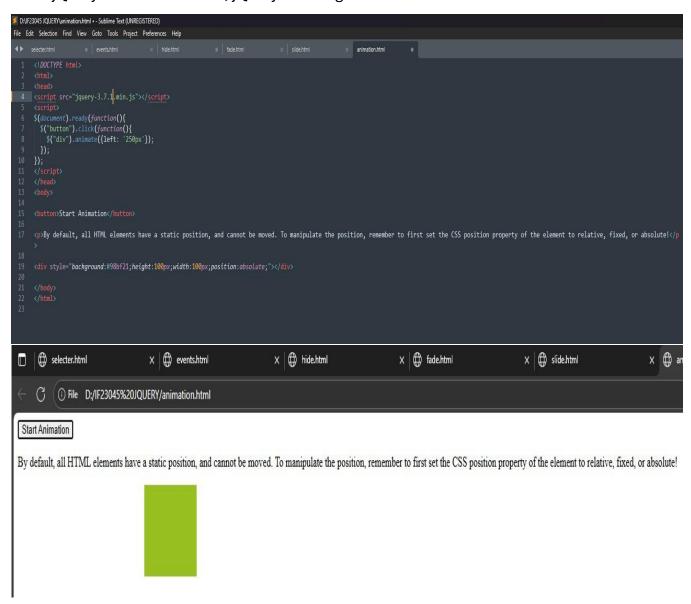
JOUERY SLIDE:-

Click to slide down panel

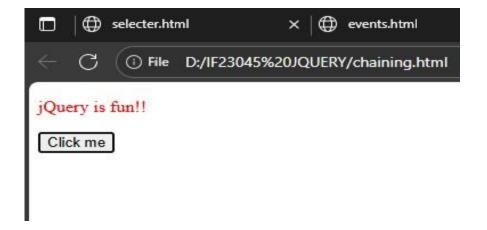
Hello world!

PRACTICAL 9(A)

Aim:- jQuery Animation effects, jQuery Chaining

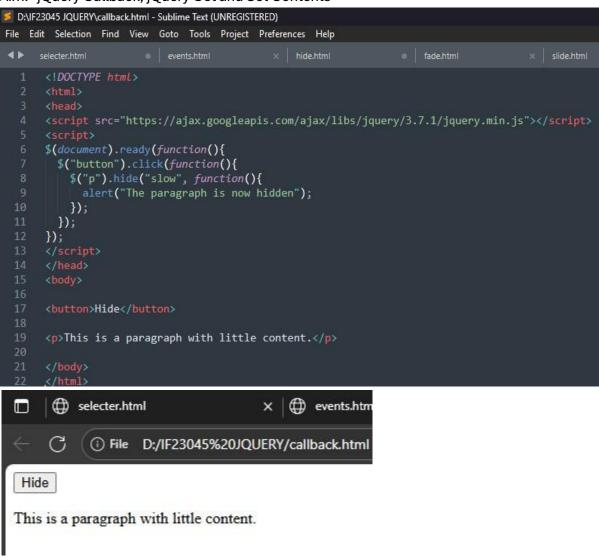


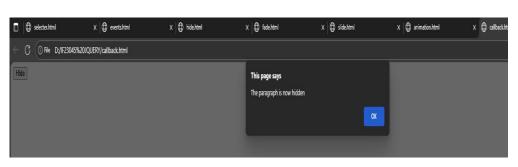
JOUERY CHAINING-



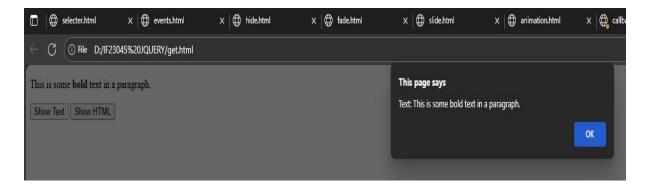
PRACTICAL 9(B)

Aim:- jQuery Callback, jQuery Get and Set Contents





JQUERY GET:-

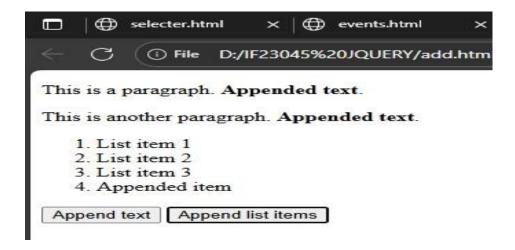


JQUERY SET:-

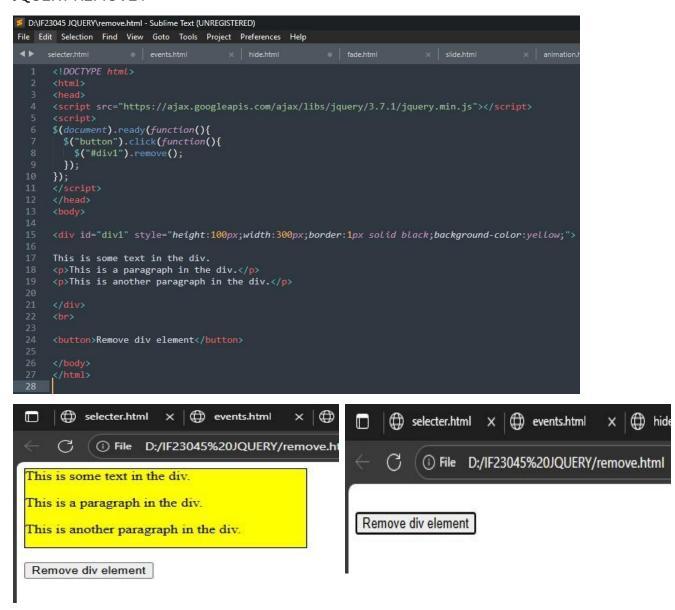


PRACTICAL 9(C)

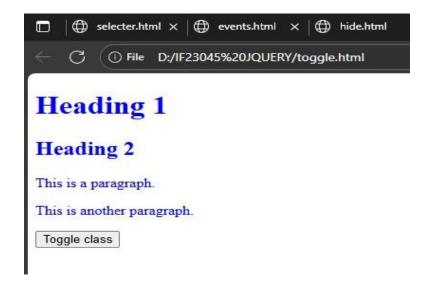
Aim:- jQuery Insert Content, jQuery Remove Elements and Attribute



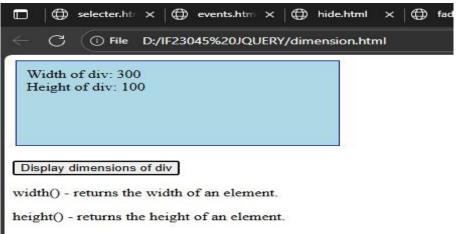
JQUERY REMOVE:-



JQUERY TOGGLE:-



JQUERY DIMENSION:-



JQUERY ANCESTORS:-

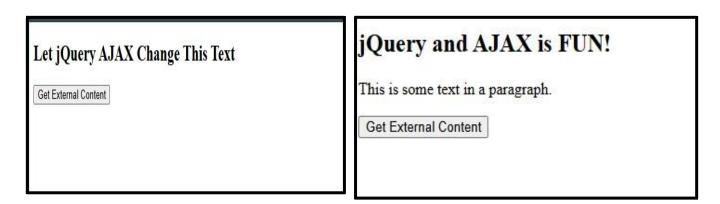
```
div (great-grandparent)

li (direct parent)
span

div (grandparrent)

p (direct parent)
span
```

JQUERY AJAX:-



PRACTICAL 10(A)

Aim:- Creating JSON

```
jsom.py - C:/Users/Admin/AppData/Local/Programs/Python/Python313/jsom.py (3.
 File Edit Format Run Options Window
                                          Help
import ison
a={"name":"Ajay","Age":20}
b=json.dumps(a)
print (b)
iDLE Shell 3.13.5
File Edit Shell Debug Options Window Help
    Python 3.13.5 (tags/v3.13.5:6cb20a2, Jun 11 2025, 16:15:46) [MSC v.1943 |
    Enter "help" below or click "Help" above for more information.
>>>
    ==== RESTART: C:/Users/Admin/AppData/Local/Programs/Python/Python313
    {"name": "Ajay", "Age": 20}
>>>
PRACTICAL 10(B)
Aim: - Parsing JSON
 c= ' {"a":1,"b":2} '
 d=json.loads(c)
 print (d["a"])
==== RESTART: C:/Users/Admin/AppData/Local/Programs/Python/Python313/jsom.py ===
{"name": "Ajay", "Age": 20}
```

PRACTICAL 10(C)

Aim:- Export MongoDB to JSON.

```
Microsoft Windows [Version 10.0.26100.4652]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd C:\Program Files\MongoDB\Server\4.0\bin

C:\Program Files\MongoDB\Server\4.0\bin>mongoexport --db IF23045 --collection products --out c:/outside/first.json --jsonArray --pretty 2025-09-02T10:17:03.279+0530 connected to: mongodb://localhost/ exported 4 records

C:\Program Files\MongoDB\Server\4.0\bin>mongoimport --db IF23005 --collection products --type json --file c:/outside/first.json --jsonArray 2025-09-02T10:26:40.235+0530 connected to: mongodb://localhost/ 2025-09-02T10:26:40.235+0530 document(s) imported successfully. 0 document(s) failed to import.

C:\Program Files\MongoDB\Server\4.0\bin>
```

```
> show dbs
IF23005
                                           0.000GB
IF23045
IF23122
IF23135
MKSDB
                                           0.000GB
0.000GB
                                           0.000GB
                                           0.000GB
0.000GB
 Students
abc
admin
                                           0.000GB
0.000GB
college_22003
config
local
                                           0.000GB
0.000GB
                                           0.000GB
mks
                                           0.000GB
                                           0.000GB
0.000GB
mydatabase
mydatabase25
mydb
                                            0.000GB
sia
student
                                           0.000GB
0.000GB
 test
                                           0.000GB
 > use IF23045
switched to db IF23045
> show collections
products
products
test

> db.products.find()

{ "_id" : 1, "Product" : "Apple", "Total" : 10, "Customer" : "ABC" }

{ "_id" : 2, "Product" : "Banana", "Total" : 20, "Customer" : "DEF" }

{ "_id" : 3, "Product" : "Banana", "Total" : 15, "Customer" : "ABC" }

{ "_id" : 4, "Product" : "Apple", "Total" : 25, "Customer" : "GHI" }

> use IF23005

> witched to db IF23005

> show collections

Student
products
     db.products.find()
"_id" : 2, "Product" :
"_id" : 4, "Product" :
"_id" : 3, "Product" :
"_id" : 1, "Product" :
                                                                       "Banana", "Total" : 20, "Customer" : "DEF"
"Apple", "Total" : 25, "Customer" : "GHI" }
"Banana", "Total" : 15, "Customer" : "ABC"
"Apple", "Total" : 10, "Customer" : "ABC" }
                                                                                                                                                                                   "DEF" }
                                                                                                                                                                                                     3
```