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## PRACTICAL NO:-1

## **MONGO DB BASICS**

a. Write a MongoDB query to create and drop database.

#### Syntax:-

```
use DATABASE NAME
```

#### Query:-

>use college

```
MongoDB Enterprise > use college
switched to db college
MongoDB Enterprise >
```

## Syntax:-

```
db.dropDatabase()
```

## Query:-

> db.dropDatabase()

```
MongoDB Enterprise > db.dropdatabase
college.dropdatabase
MongoDB Enterprise > _
```

## b. Write a MongoDB query to create, display and drop collection

## Syntax:-

db.createCollection(name, options)

## Query:-

>db.createCollection("student")

Command Prompt - mongo

```
MongoDB Enterprise > db.createCollection("student")
{ "ok" : 1 }
MongoDB Enterprise > _
```

## Syntax:-

show collections

## Query:-

>show collections

```
Command Prompt - mongo

MongoDB Enterprise > show collections
student

MongoDB Enterprise > __
```

## Syntax:-

db.COLLECTION\_NAME.drop()

## Query:-

>db.student.drop()

```
MongoDB Enterprise > db.student.drop()
true
MongoDB Enterprise >
```

c. Write a MongoDB query to insert, query, update and delete a document.

#### **INSERT DOCUMENT**

## Syntax:-

db.COLLECTION\_NAME.insert(document)

## Query:-

>db.mycol.insert({course:"BSC\_IT",duration:"3", url:"ldsonawane.com"})

```
Command Prompt-mongo

MongoDB Enterprise > db.mycol.insert({course:"BSC_IT",duration:"3",url:"ldsonawane.com"})

WriteResult({ "nInserted" : 1 })

MongoDB Enterprise >
```

## **QUERY DOCUMENT**

Syntax:-

## >db.COLLECTION\_NAME.find()

## Query:-

>db.mycol.find()

Command Prompt - mongo

```
MongoDB Enterprise > db.mycol.find()
{ "_id" : ObjectId("5bb8e09cc48c1c5cc194c5c8"), "course" : "BSC_IT", "duration" : "3", "url" : "ldsonawane.com" }
{ "_id" : ObjectId("5bb8e100c48c1c5cc194c5c9"), "course" : "BCOM", "duration" : "3", "url" : "ldsonawane.com" }
{ "_id" : ObjectId("5bb8e10ac48c1c5cc194c5ca"), "course" : "BA", "duration" : "3", "url" : "ldsonawane.com" }
MongoDB Enterprise > _
```

#### **UPDATE DOCUMENT**

## Syntax:-

```
>db.COLLECTION_NAME.update(SELECTION_CRITERIA, UPDATED_DATA)
```

## Query:-

>db.mycol.update({"course":"BSC\_IT"},{\$set:{"durration":4}})

```
MongoDB Enterprise > db.mycol.update({"course":"BSC_IT"},{$set:{"durration":4}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
MongoDB Enterprise >
```

## **DELETE DOCUMENT**

#### Syntax:-

>db.COLLECTION NAME.remove(DELLETION CRITTERIA)

#### Query:-

>db.mycol.remove({"course":"BCOM"})

```
MongoDB Enterprise > db.mycol.remove({"course":"BCOM"})
WriteResult({ "nRemoved" : 1 })
MongoDB Enterprise > _
```

# PRACTICAL NO:-2 ➤ SIMPLE MONGODB QUERIES

 Write a mongo DB query to display all the documents in the collection restaurants:

## Query:-

db.restaurants.find()

#### Command Prompt - mongo

• Write a MongoDB query to display the fields restaurant\_id, name, borough and cuisine for all the documents in the collection restaurant.

```
db.restaurants.find({},{"restaurant_id" :
1,"name":1,"borough":1,"cuisine" :1});
```

• Write a MongoDB query to display the first 5 restaurant which is in the borough Bronx

## Query:-

db.restaurants.find({"borough": "Bronx"}).limit(5);

• Write a MongoDB query to find the restaurants that achieved a score is more than 80 but less than 100

## Query:-

```
db.restaurants.find({grades : {
$elemMatch:{"score":{$gt : 80 , $lt :100}}}});
```

#### Command Prompt - mongo

 Write a MongoDB query to find the restaurant Id, name, and grades for those restaurants which achieved a grade of "A" and scored 11 on an ISODate "2014-08-11T00:00:00Z" among many of survey dates.

## Query:-

```
db.restaurants.find({"grades.date":ISODate("2014-08-11T00:00:00Z"),"grades.grade":"A","grades.score":11},{"restaurant_id":1,"name":1,"grades":1});
```

## **PRACTICAL NO:-3**

## > Implementing Aggregation

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

#### SUM

#### Syntax:-

>db.COLLECTION\_NAME.aggregate(AGGREGATE\_OPERATION)

## Query:-

db.fees.aggregate({\$group:{\_id:"name",total:{\$sum:"\$amou nt"}}})

Command Prompt - mongo

```
MongoDB Enterprise > db.fees.aggregate({$group:{_id:"name",total:{$sum:"$amount"}}})
{ "_id" : "name", "total" : 22000 }
MongoDB Enterprise >
```

#### **AVG**

Syntax:-

```
>db.COLLECTION_NAME.aggregate([{$group : {_id : "$by_user", num_tutorial : {$avg : "$likes"}}}])
```

#### Query:-

db.fees.aggregate({\$group:{\_id:"name",total\_avg:{\$avg:"\$a mount"}}})

Command Prompt - mongo

#### MIN

## Syntax:-

```
>db.COLLECTION_NAME.aggregate[{$group : {_id : "$by_user", num_tutorial : {$min : "$likes"}}}])
```

## Query:-

```
db.fees.aggregate({$group:{_id:"name",minimum:{$min:"$a
mount"}}})
```

```
MongoDB Enterprise > db.fees.aggregate({$group:{_id:"name",minimum:{$min:"$amount"}}})
{ "_id" : "name", "minimum" : 5000 }
MongoDB Enterprise >
```

## **MAX**

## Syntax:-

```
>db.COLLECTION_NAME.aggregate[{$group : {_id : "$by_user", num_tutorial : {$max : "$likes"}}}])
```

## Query:-

```
db.fees.aggregate({$group:{_id:"name",maximum:{$max:"$a
mount"}}})
```

```
MongoDB Enterprise > db.fees.aggregate({$group:{_id:"name",maximum:{$max:"$amount"}}})  
{ "_id" : "name", "maximum" : 9000 }
MongoDB Enterprise > _
```

b. Write a MongoDB query to use push and addToSet expression.

#### **PUSH**

## Syntax:-

```
>db.COLLECTION_NAME.update({ $push: { <field1>: <value1>, ... } })
```

## Query:-

```
db.students.update({ name: "sid" },{ $push: { marks: 89 } })
```

Command Prompt - mongo

```
MongoDB Enterprise > db.students.update({studid:2},{$push:{marks:89}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
MongoDB Enterprise > _
```

#### **ADDTOSET**

## Syntax:-

```
>db.COLLECTION_NAME.update({ <field>: <value> }, { $addtoset: { <field1>: <addition> } })
```

#### Query:-

```
db.students.update({ name: "sid" },{ $addToSet: {
  marks:{$each:[89,70,69]} } })
```

Command Prompt - mongo

```
MongoDB Enterprise > db.students.update({studid:1},{$addToSet:{marks:{$each:[89,70,69]}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
MongoDB Enterprise >
```

c. Write a MongoDB query to use first and last expression

#### **FIRST**

## Syntax:-

```
>db.COLLECTION_NAME.aggregate([$group : {_id: "$by_user", first u rl : {$first : "$url"} } })
```

```
db.fees.aggregate({$group:{_id:"name",total:{$first:"$name"}}}
)
```

#### Command Prompt - mongo

```
MongoDB Enterprise > use fees
switched to db fees
MongoDB Enterprise > db.fees.aggregate({$group:{_id:"name",total:{$first:"$name"}}})
{ "_id" : "name", "total" : "vaibhav" }
MongoDB Enterprise > _
```

#### **LAST**

#### Syntax:-

```
>db.COLLECTION_NAME.aggregate([$group : {_id: "$by_user", last ur | : {$last : "$url"} } })
```

## Query:-

db.fees.aggregate({\$group:{\_id:"name",total:{\$last:"\$name"}}})

```
MongoDB Enterprise > db.fees.aggregate({$group:{_id:"name",total:{$last:"$name"}}})
{ "_id" : "name", "total" : "ernest" }
MongoDB Enterprise > _
```

## **PRACTICAL NO:-4**

## > JAVA AND MONGODB

a. Connecting Java with MongoDB and inserting, retrieving, updating and deleting

#### **INSERT**

```
Query:-
public class Mongodb connection insert
 public static void main(String args[])
   try{
     MongoClient mongoclient =
           new MongoClient("localhost",27017);
     DB db=mongoClient.getDB("testdb");
     System.out.println("Connection successful");
     DBCollection collec=db.getCollection("stucollec");
     BasicDBObject doc= new
     BasicDBObject("student", "testdb").append("name", "Arun
     ").apped("class","v").append("roll_no",5);
     collec.insert(doc);
     System.out.println("inserted");}
     catch(Exception e)
       {
          System.err.println(e.getClass().getName()+"."+e.get
           Message())
     }
}
```

}

```
> show collections
stucollec
student
> db.stucollec.find().pretty()
{
        "_id" : ObjectId("5bc07ef18f2b79256401b870"),
        "student" : "testdb",
        "name" : "Arun",
        "class" : "v",
        "roll_no" : 5
}
```

#### **RETRIVE**

```
import com.mongodb.MongoClient;
import com.mongodb.MongoException;
import com.mongodb.WriteConcern;
import com.mongodb.DB;
import com.mongodb.DBCollection;
import com.mongodb.BasicDBObject;
import com.mongodb.DBObject;
import com.mongodb.DBCursor;
import com.mongodb.ServerAddress;
```

```
import java.util.Arrays;
     public class Mongodb_connection_find_all_documents
           public static void main(String args[])
                try{
                MongoClient mongoclient=new
MongoClient("localhost",27017);
                DB db=mongoClient.getDB("testdb");
                DBCollection collec=db.getCollection("stucollec");
                DBCursor cursor=collec.find();
                      try
                           {
                                 While(cursor.hasNext())
                           {
                                 System.out.println(cursor.next());
                           }
                                 } finally
                           {
                                 cursor.close();
                                 } catch(Exception e)
                           {
     System.err.println(e.getClass().getName()+"."+e.getMessage());
                                       }
                                            }
```

■ C:\Windows\System32\cmd.exe

```
::\mongojava>javac Mongodb_connection_retreive_document.java
Note: Mongodb_connection_retreive_document.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
C:\mongojava>java Mongodb_connection_retreive_document
Oct 12, 2018 4:46:50 PM com.mongodb.diagnostics.logging.JULLogger log
FO: Cluster created with settings {hosts=[localhost:27017], mode=SINGLE, requiredClusterType=UNKNOWN, serverSelectionTimeou
 t='30000 ms', maxWaitQueueSize=500}
Oct 12, 2018 4:46:50 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: No server chosen by ReadPreferenceServerSelector{readPreference=primary} from cluster description ClusterDescription{
type=UNKNOWN, connectionMode=SINGLE, all=[ServerDescription{address=localhost:27017, type=UNKNOWN, state=CONNECTING}]}. Wait
ting for 30000 ms before timing out
                                                                                                                                                            Oct 12
, 2018 4:46:50 PM com.mongodb.diagnostics.logging.JULLogger log ened connection [connectionId{localValue:1, serverValue:10}] to localhost:27017
                                                                                                                                                          INFO: Op
Oct 12, 2018 4:46:50 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Monitor thread successfully connected to server with description ServerDescription{address=localhost:27017, type=STAN DALONE, state=CONNECTED, ok=true, version=ServerVersion{versionList=[4, 0, 1]}, minWireVersion=0, maxWireVersion=7, electionId=null, maxDocumentSize=16777216, roundTripTimeNanos=642711}
Oct 12, 2018 4:46:50 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:2, serverValue:11}] to localhost:27017
{ "_id" : { "$oid" : "5bc07ef18f2b79256401b870"} , "student" : "testdb" , "name" : "Arun" , "class" : "v" , "roll_no" : 5}
 :\mongojava>_
```

#### **UPDATE**

```
public class Mongodb_connection_update_document
{
  public static void main(String args[])
  {
    try{
        MongoClient mongoclient = new
        MongoClient("localhost",27017);
        DB db=mongoClient.getDB("testdb");
```

```
DBCollection collec=db.getCollection("stucollec");
           DBObject query=new BasicDBObject("name","sabina");
           DBObject update=new BasicDBObject();
           Update.put("$set",new BasicDBObject("roll_no",13));
          WriteResult result=collec.update(query,update);
          DBCursor cursor=collec.find();
     try{
          while(cursor.hasNext())
     {
          System.out.println(cursor.next());
     }
finally
          cursor close();
     {
     }
}
     catch(Exception e)
     System.err.println(e.getClass().getName()+"."+e.getMessage());
}
```

```
C:\Windows\System32\cmd.exe
                                                                                                                 C:\mongojava>java Mongodb_connection_update_document
Oct 12, 2018 4:38:45 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Cluster created with settings {hosts=[localhost:27017], mode=SINGLE, requiredClusterType=UNKNOWN, serverSelectionT
imeout='30000 ms', maxWaitQueueSize=500}
Oct 12, 2018 4:38:46 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: No server chosen by PrimaryServerSelector from cluster description ClusterDescription{type=UNKNOWN, connectionMode
=SINGLE, all=[ServerDescription{address=localhost:27017, type=UNKNOWN, state=CONNECTING}]}. Waiting for 30000 ms before
Oct 12, 2018 4:38:46 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:1, serverValue:6}] to localhost:27017
Oct 12, 2018 4:38:46 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Monitor thread successfully connected to server with description ServerDescription{address=localhost:27017, type=S
TANDALONE, state=CONNECTED, ok=true, version=ServerVersion{versionList=[4, 0, 1]}, minWireVersion=0, maxWireVersion=7, e
lectionId=null, maxDocumentSize=16777216, roundTripTimeNanos=760772}
Oct 12, 2018 4:38:46 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:2, serverValue:7}] to localhost:27017
 __id" : { "$oid" : "5bc07ef18f2b79256401b870"} , "student" : "testdb" , "name" : "Arun" , "class" : "v" , "roll_no" :
   id" : { "$oid" : "5bc0800b8f2b7905380c8d45"} , "student" : "testdb" , "name" : "sabina" , "class" : "v" , "roll_no"
 :\mongojava>
```

#### **DELETE**

```
Query:-
```

```
public class Mongodb_connection_delete_document
{
  public static void main(String args[])
  {
    try{
```

```
MongoClient mongoclient = new
           MongoClient("localhost",27017);
           DB db=mongoClient.getDB("testdb");
           DBCollection collec=db.getCollection("stucollec");
           DBObject query=new BasicDBObject("name","sabina");
           DBObject update=new BasicDBObject();
           Update.put("$set",new BasicDBObject("roll_no",13));
          WriteResult result=collec.remove(query);
          DBCursor cursor=collec.find();
     try{
          while(cursor.hasNext())
     {
          System.out.println(cursor.next());
     }
finally
          cursor close();
}
     catch(Exception e)
     System.err.println(e.getClass().getName()+"."+e.getMessage());
  }
}
```

## **PRACTICAL NO:-5**

## > PHP AND MONGODB

a. Connecting PHP with MongoDB and inserting, retrieving, updating and deleting.

#### **CONNECTION**

#### Query:-

```
<?php
// connect to mongodb
$m = new MongoClient();

echo "Connection to database successfully";
// select a database
$db = $m->mydb;

echo "Database mydb selected";
?>
```

#### **INSERTING**

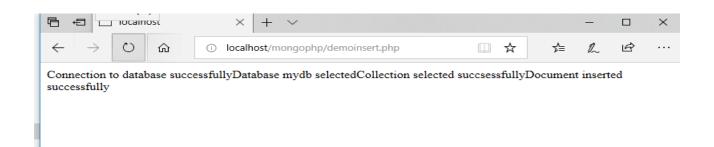
```
<?php
// connect to mongodb
$m = new MongoClient();
echo "Connection to database successfully";

// select a database
$db = $m->mydb;
echo "Database mydb selected";
```

```
$collection = $db->mycol;
echo "Collection selected succsessfully";

$document = array(
    "title" => "MongoDB",
    "description" => "database",
    "likes" => 100,
    "url" => "http://www.tutorialspoint.com/mongodb/",
    "by" => "tutorials point"
);

$collection->insert($document);
echo "Document inserted successfully";
?>
```



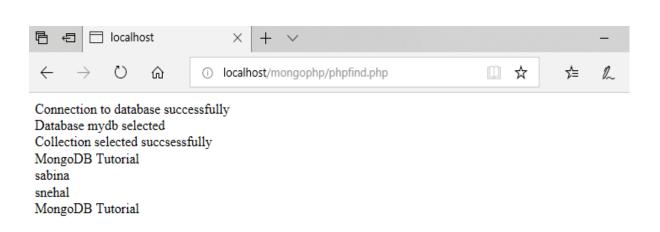
#### RETRIEVING

```
<?php
// connect to mongodb
$m = new MongoClient();
echo "Connection to database successfully";

// select a database
$db = $m->mydb;
echo "Database mydb selected";
$collection = $db->mycol;
echo "Collection selected succsessfully";
```

```
$cursor = $collection->find();
// iterate cursor to display title of documents

foreach ($cursor as $document) {
   echo $document["title"] . "\n";
}
?>
```



#### **UPDATE**

```
<?php
// connect to mongodb
$m = new MongoClient();
echo "Connection to database successfully";

// select a database
$db = $m->mydb;
echo "Database mydb selected";
$collection = $db->mycol;
echo "Collection selected succsessfully";

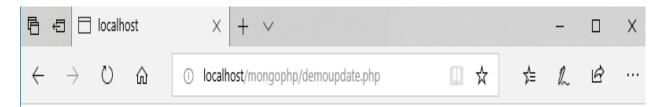
// now update the document
$collection->update(array("title"=>"MongoDB"),
```

```
array('$set'=>array("title"=>"MongoDB Tutorial")));
echo "Document updated successfully";

// now display the updated document
$cursor = $collection->find();

// iterate cursor to display title of documents
echo "Updated document";

foreach ($cursor as $document) {
   echo $document["title"] . "\n";
}
?>
```



Connection to database successfullyDatabase mydb selectedCollection selected successfullyDocument updated successfullyUpdated documentMongoDB Tutorial sabina snehal MongoDB Tutorial

#### **DELETE**

```
<?php
// connect to mongodb
$m = new MongoClient();
echo "Connection to database successfully";

// select a database
$db = $m->mydb;
```

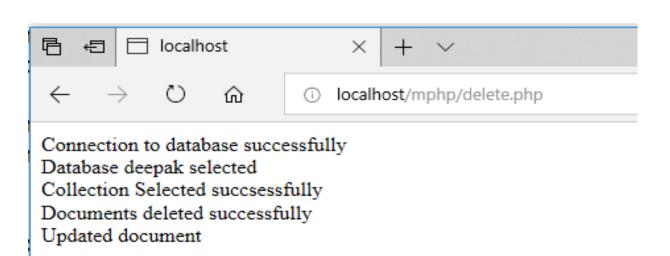
```
echo "Database mydb selected";
$collection = $db->mycol;
echo "Collection selected succsessfully";

// now remove the document
$collection->remove(array("title"=>"MongoDB Tutorial"),false);
echo "Documents deleted successfully";

// now display the available documents
$cursor = $collection->find();

// iterate cursor to display title of documents
echo "Updated document";

foreach ($cursor as $document) {
   echo $document["title"] . "\n";
}
?>
```



## **PRACTICAL NO:-6**

## > PYTHON AND MONGODB

a) Connecting Python with MongoDB and inserting, retrieving, updating and deleting.

```
python -m pip install pymongo
```

#### **INSERT**

#### Query:-

import pymongo
from pymongo import MongoClient
client=MongoClient()
db=client.testdb
student1={"name":"Eugene","classid":'V',"rollno":1}
students=db.students
students\_id=students.insert(student1)

```
which IP
2018-10-19T09:47:32.972+0530 I CONTROL [initandlisten] ** addresses it should serve responses from, or with --
bind_ip_all to
2018-10-19T09:47:32.973+0530 I CONTROL [initandlisten] ** bind to all interfaces. If this behavior is desired,
start the
2018-10-19T09:47:32.974+0530 I CONTROL [initandlisten] ** server with --bind_ip 127.0.0.1 to disable this warn
ing.
2018-10-19T09:47:32.976+0530 I CONTROL [initandlisten]
HongoDB Enterprise > use testdb
Switched to db testdb
HongoDB Enterprise > db.students.find()
[ "_id" : ObjectId("5bc82c3deeecec37e4c21547"), "name" : "Eugene", "rollno" : 1, "classid" : "V" }
HongoDB Enterprise > __
```

#### **RETRIEVE**

#### Query:-

```
import pymongo
from pymongo import MongoClient
client=MongoClient()
db=client.testdb
students=db.students
for stud in students.find({"rollno":{"gte":2}}):
print(stud)

>>>> for stud in students.find({"rollno":1}):
    print(stud)

{'classid': 'V', 'name': 'Eugene', 'rollno': 1, '_id': Obje
ctId('5bc82c3deeecec37e4c21547')}
>>>> |
```

#### **UPDATE**

```
import pymongo

myclient =
pymongo.MongoClient("mongodb://localhost:27017/")
  mydb = myclient["mydatabase"]
  mycol = mydb["customers"]

myquery = { "address": "Valley 345" }
  newvalues = { "$set": { "address": "Canyon 123" } }

mycol.update one(myquery, newvalues)
```

```
#print "customers" after the update:
for x in mycol.find():
    print(x)
```

#### DELETE

## **PRACTICAL NO:-7**

## > PROGRAMS ON BASIC JQUERY

## a) jQuery Basic, jQuery Events

## click()

```
<!DOCTYPE html>
<html>
<head>
<script src="file:///C:/js/jquery-3.3.1.min.js"></script>
<script>
$(document).ready(function(){
  $("p").click(function(){
    $(this).hide();
 });
});
</script>
</head>
<body>
If you click on me, I will disappear.
Click me away!
Click me too!
</body>
</html>
```

```
If you click on me, I will disappear.

Click me away!

Click me too!
```

## mousedown()

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("#p1").mousedown(function(){
    alert("Mouse down over p1!");
 });
});
</script>
</head>
<body>
This is a paragraph.
</body>
</html>
<!DOCTYPE html>
<html>
```

This is a paragraph.

## focus()

```
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("input").focus(function(){
    $(this).css("background-color", "#cccccc");
  });
  $("input").blur(function(){
    $(this).css("background-color", "#ffffff");
  });
});
</script>
</head>
<body>
Name: <input type="text" name="fullname"><br>
Email: <input type="text" name="email">
</body>
</html>
```

Name:	
Email:	

# blur()

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("input").focus(function(){
    $(this).css("background-color", "#cccccc");
  });
  $("input").blur(function(){
    $(this).css("background-color", "#ffffff");
  });
});
</script>
</head>
<body>
Name: <input type="text" name="fullname"><br>
Email: <input type="text" name="email">
</body>
</html>
```

Email:	

### b) jQuery Selectors, jQuery Hide and Show effects

# selectors()

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("p").hide();
  });
});
</script>
</head>
<body>
<h2>This is a heading</h2>
This is a paragraph.
This is another paragraph.
<button>Click me to hide paragraphs/button>
</body>
</html>
```

## This is a heading

This is a paragraph.

This is another paragraph.

Click me to hide paragraphs

# Hide() and show()

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("#hide").click(function(){
    $("p").hide();
  });
  $("#show").click(function(){
    $("p").show();
  });
});
</script>
</head>
<body>
If you click on the "Hide" button, I will disappear.
<button id="hide">Hide</button>
<button id="show">Show</button>
```

```
</body>
```

If you click on the "Hide" button, I will disappear.

Hide Show

# toggle()

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("p").toggle();
 });
});
</script>
</head>
<body>
<button>Toggle between hiding and showing the
paragraphs</button>
This is a paragraph with little content.
This is another small paragraph.
</body>
```

Toggle between hiding and showing the paragraphs

This is a paragraph with little content.

This is another small paragraph.

### c) jQuery fading effects, jQuery Sliding effects

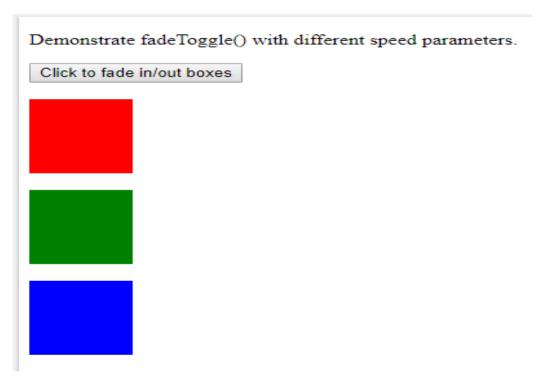
## fadeIn()

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
 $("button").click(function(){
    $("#div1").fadeIn();
   $("#div2").fadeIn("slow");
   $("#div3").fadeIn(3000);
 });
});
</script>
</head>
<body>
Demonstrate fadeIn() with different parameters.
<div id="div1"
style="width:80px;height:80px;display:none;background-
color:red;"></div><br>
<div id="div2"
style="width:80px;height:80px;display:none;background-
color:green;"></div><br>
<div id="div3"
style="width:80px;height:80px;display:none;background-
color:blue;"></div>
</body>
```

## fadeToggle()

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("#div1").fadeToggle();
    $("#div2").fadeToggle("slow");
    $("#div3").fadeToggle(3000);
  });
});
</script>
</head>
<body>
>Demonstrate fadeToggle() with different speed
parameters.
<button>Click to fade in/out boxes</button><br><br>
<div id="div1" style="width:80px;height:80px;background-
color:red;"></div>
<br>
<div id="div2" style="width:80px;height:80px;background-
color:green;"></div>
<br>
<div id="div3" style="width:80px;height:80px;background-
color:blue;"></div>
</body>
```

### </html>



# slideDown()

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
    $("#flip").click(function(){
    $("#panel").slideDown("slow");
    });
});
</script>
<style>
#panel, #flip {
    padding: 5px;
    text-align: center;
```

```
background-color: #e5eecc;
  border: solid 1px #c3c3c3;
}
#panel {
  padding: 50px;
  display: none;
</style>
</head>
<body>
<div id="flip">Click to slide down panel</div>
<div id="panel">Hello world!</div>
</body>
</html>
                         Click to slide down panel
                             Hello world!
```

# slideUp()

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
```

```
$("#flip").click(function(){
    $("#panel").slideUp("slow");
  });
});
</script>
<style>
#panel, #flip {
  padding: 5px;
  text-align: center;
  background-color: #e5eecc;
  border: solid 1px #c3c3c3;
}
#panel {
  padding: 50px;
</style>
</head>
<body>
<div id="flip">Click to slide up panel</div>
<div id="panel">Hello world!</div>
</body>
</html>
```

Click to slide up panel

Hello world!

### **PRACTICAL NO:-8**

### jQuery Advanced

# a) jQuery Animation effects, jQuery Chaining ANIMATION

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("div").animate({left: '250px'});
  });
});
</script>
</head>
<body>
<button>Start Animation/button>
By default, all HTML elements have a static position, and cannot
be moved. To manipulate the position, remember to first set the CSS
position property of the element to relative, fixed, or absolute!
<div
style="background:#98bf21;height:100px;width:100px;position:absol
ute:"></div>
</body>
</html>
```

Start Animation

By default, all HTML elements have a static position, and cannot be moved. To manipulate the position, remember to first set the CSS position property of the element to relative, fixed, or absolute!



# jQuery animate() - Manipulate Multiple Properties

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("div").animate({
      left: '250px',
      opacity: '0.5',
      height: '150px',
      width: '150px'
    });
  });
});
</script>
</head>
<body>
```

<button>Start Animation</button>

By default, all HTML elements have a static position, and cannot be moved. To manipulate the position, remember to first set the CSS position property of the element to relative, fixed, or absolute!

```
<div
style="background:#98bf21;height:100px;width:100px;position:absol
ute;"></div>
</body>
</html>
```

#### Start Animation

By default, all HTML elements have a static position, and cannot be moved. To manipulate the position, remember to first set the CSS position property of the element to relative, fixed, or absolute!

# **jQuery Method Chaining**

```
<!DOCTYPE html>
<html>
<head>
<script src="file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
    $("button").click(function(){
    $("#p1").css("color", "red").slideUp(2000).slideDown(2000);
    });
});
</script>
</head>
<body>
```

```
jQuery is fun!!
<button>Click me</button>
</body>
</html>

jQuery is fun!!
```

Click me

# b) jQuery Callback, jQuery Get and Set Contents

```
jQuery Callback Functions
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("p").hide("slow", function(){
      alert("The paragraph is now hidden");
    });
  });
});
</script>
</head>
<body>
<button>Hide</button>
This is a paragraph with little content.
</body>
</html>
```

Hide

This is a paragraph with little content.

# **Get Content - text()**

```
<!DOCTYPE html>
<html>
<head>
<script src=" file:///C:/js/jquery-3.3.1.min.js "></script>
<script>
$(document).ready(function(){
  $("#btn1").click(function(){
    alert("Text: " + $("#test").text());
  });
  $("#btn2").click(function(){
    alert("HTML: " + $("#test").html());
 });
});
</script>
</head>
<body>
This is some <b>bold</b> text in a paragraph.
<button id="btn1">Show Text</button>
<button id="btn2">Show HTML</button>
</body>
</html>
```

This is some **bold** text in a paragraph.

Show Text

Show HTML

### **PRACTICAL NO:-9**

# >JSON

# a) creating JSON

- JSON stands for JavaScript Object Notation
- JSON is a lightweight data interchange format
- JSON is language independent \*
- · JSON is "self-describing" and easy to understand

```
Example:-
    {
"employees":[
        {"firstName":"John", "lastName":"Doe"},
        {"firstName":"Anna", "lastName":"Smith"},
        {"firstName":"Peter", "lastName":"Jones"}
]
}
```

# b)Parsing JSON

```
file:-
<!DOCTYPE html>
<html>
<body>
```

```
<h2>Use the XMLHttpRequest to get the content of a
file.</h2>
The content is written in JSON format, and can easily
be converted into a JavaScript object.
<script>
var xmlhttp = new XMLHttpRequest();
xmlhttp.onreadystatechange = function() {
  if (this.readyState == 4 && this.status == 200) {
    var myObj = JSON.parse(this.responseText);
    document.getElementById("demo").innerHTML =
myObj.name;
};
xmlhttp.open("GET", "json_demo.txt", true);
xmlhttp.send();
</script>
Take a look at <a href="json demo.txt"</p>
target=" blank">json demo.txt</a>
</body>
</html>
example:-
  var obj = JSON.parse(text);
```

# **PRACTICAL NO:-10**

# > Create a JSON file and import it to MongoDB

Import MongoDB to JSON:-

mongoimport --db dbName --collection collectionName --file fileName.json --jsonArray

Export MongoDB to JSON:-

mongoexport --db sales --collection contacts --out contacts.js on