Assignment No. 1

```
emp> show dbs
Internship 336.00 KiB
admin
          40.00 KiB
         60.00 KiB
config
inotebook
            8.00 KiB
local
         88.00 KiB
mydb
           8.00 KiB
emp> use mydb
switched to db mydb
mydb> show dbs
Internship 336.00 KiB
admin
          40.00 KiB
config
         60.00 KiB
inotebook
            8.00 KiB
         88.00 KiB
local
mydb
           8.00 KiB
mydb> db.movie.insert({"name":"tutorials point"})
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or
bulkWrite.
 acknowledged: true,
 insertedIds: { '0': ObjectId("65417ab3f1a2c5c7b3297941") }
mydb> show dbs
Internship 336.00 KiB
admin
          40.00 KiB
         60.00~{\rm KiB}
config
inotebook
           8.00 KiB
local
         88.00 KiB
          48.00 KiB
mydb
```

```
mydb> db.dropDatabase()
{ ok: 1, dropped: 'mydb' }
mydb> show dbs
Internship 336.00 KiB
admin
          40.00 KiB
config
         72.00 KiB
inotebook
            8.00 KiB
local
         88.00 KiB
mydb> use test
switched to db test
test> db.createCollection("mycollection")
{ ok: 1 }
test> show collections
mycollection
test> db.mycol.insert({title:"Mongodb Overview",desc:"Is no sql database",by:"Atre
Pramod",url:"https://pramod-atre.web.app",tags:['mongodb','datbase','Nosql']});
 acknowledged: true,
 insertedIds: { '0': ObjectId("65417d0ff1a2c5c7b3297942") }
test> show dbs
Internship 336.00 KiB
admin
          40.00 KiB
config
         96.00 KiB
inotebook
            8.00 KiB
local
         88.00 KiB
        48.00 KiB
test
test> use emp
switched to db emp
emp> db.createCollection("emp info")
{ ok: 1 }
emp> show dbs
```

```
Internship 336.00 KiB
admin
          40.00 KiB
config
       96.00 KiB
          8.00 KiB
emp
inotebook
           8.00 KiB
local
         88.00 KiB
test
        48.00 KiB
emp> show collections
emp info
emp>
db.emp info.insertOne({emp id:1,emp name:"pramod",address:"Sangamner",salary:
{
 acknowledged: true,
 insertedId: ObjectId("65417f32f1a2c5c7b3297943")
}
emp> db.emp_info.find();
[
  id: ObjectId("65417f32f1a2c5c7b3297943"),
  emp_id: 1,
  emp name: 'pramod',
  address: 'Sangamner',
  salary: 50000
 }
1
emp> db.emp info.find().pretty();
[
  id: ObjectId("65417f32f1a2c5c7b3297943"),
  emp id: 1,
  emp name: 'pramod',
  address: 'Sangamner',
```

```
salary: 50000
]
emp> db.emp_info.insertOne({emp_id:2,emp_name:"Atre",address:"Nasik",salary:50000});
{
 acknowledged: true,
 insertedId: ObjectId("65417fbdf1a2c5c7b3297944")
emp> db.emp info.find().pretty();
_id: ObjectId("65417f32f1a2c5c7b3297943"),
  emp_id: 1,
  emp_name: 'pramod',
  address: 'Sangamner',
  salary: 50000
 },
  id: ObjectId("65417fbdf1a2c5c7b3297944"),
  emp_id: 2,
  emp name: 'Atre',
  address: 'Nasik',
  salary: 50000
 }
]
emp> db.emp_info.remove({emp_id:1});
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany,
findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 1 }
emp> db.emp_info.find().pretty();
[
```

```
_id: ObjectId("65417fbdf1a2c5c7b3297944"),
  emp_id: 2,
  emp_name: 'Atre',
  address: 'Nasik',
  salary: 50000
 }
]
emp>
db.emp info.insertOne({emp id:1,emp name:"pramod",address:"Sangamner",salary:
50000});
{
 acknowledged: true,
 insertedId: ObjectId("65418124f1a2c5c7b3297945")
}
emp> db.emp info.find().pretty();
[
  id: ObjectId("65417fbdf1a2c5c7b3297944"),
  emp id: 2,
  emp name: 'Atre',
  address: 'Nasik',
  salary: 50000
 },
  id: ObjectId("65418124f1a2c5c7b3297945"),
  emp id: 1,
  emp name: 'pramod',
  address: 'Sangamner',
  salary: 50000
 }
1
emp> db.emp info.updateOne({emp id:1},{$set:{emp name:"Pramod Atre"}});
{
```

```
acknowledged: true,
 insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
emp> db.emp_info.find().pretty();
[
  _id: ObjectId("65417fbdf1a2c5c7b3297944"),
  emp_id: 2,
  emp_name: 'Atre',
  address: 'Nasik',
  salary: 50000
 },
  _id: ObjectId("65418124f1a2c5c7b3297945"),
  emp_id: 1,
  emp_name: 'Pramod Atre',
  address: 'Sangamner',
  salary: 50000
]
```

Assignment No. 2

```
emp> show dbs
Internship 336.00 KiB
admin
          40.00~{\rm KiB}
config
          96.00 KiB
emp
         72.00 KiB
inotebook
            8.00 KiB
local
         88.00 KiB
        48.00 KiB
test
emp> use bank
switched to db bank
bank> db.createCollection("account")
{ ok: 1 }
bank> db.createCollection("branch")
{ ok: 1 }
bank> db.createCollection("customer")
{ ok: 1 }
bank> show dbs
Internship 336.00 KiB
admin
          40.00~{\rm KiB}
bank
         24.00 KiB
config
        108.00 KiB
         72.00 KiB
emp
inotebook
            8.00 KiB
local
         88.00 KiB
        48.00 KiB
test
bank> show collections
account
branch
```

customer

```
bank>
db.account.insertMany([{ac no:1111001,cus id:"cus001",branch id:"br001",balance:3
0000},{ac no:1111002,cus id:"cus002",branch id:"br001",balance:10000},{ac no:1111
003,cus id:"cus003",branch id:"br002",balance:3000},{ac no:1111004,cus id:"cus004
",branch id:"br002",balance:5000},{ac no:1111005,cus id:"cus005",branch id:"br003
",balance:3000},{ac no:1111006,cus id:"cus006",branch id:"br003",balance:5000},{ac
no:1111007,cus id:"cus007",branch id:"br004",balance:400},{ac no:1111008,cus id:"
cus008",branch id:"br004",balance:2000}]);
 acknowledged: true,
 insertedIds: {
  '0': ObjectId("6541873df1a2c5c7b3297946"),
  '1': ObjectId("6541873df1a2c5c7b3297947"),
  '2': ObjectId("6541873df1a2c5c7b3297948"),
  '3': ObjectId("6541873df1a2c5c7b3297949"),
  '4': ObjectId("6541873df1a2c5c7b329794a"),
  '5': ObjectId("6541873df1a2c5c7b329794b"),
  '6': ObjectId("6541873df1a2c5c7b329794c"),
  '7': ObjectId("6541873df1a2c5c7b329794d")
bank> db.account.find();
id: ObjectId("6541873df1a2c5c7b3297946"),
  ac no: 1111001,
  cus id: 'cus001',
  branch id: 'br001',
  balance: 30000
 },
  id: ObjectId("6541873df1a2c5c7b3297947"),
  ac no: 1111002,
  cus id: 'cus002',
```

```
branch_id: 'br001',
 balance: 10000
},
 _id: ObjectId("6541873df1a2c5c7b3297948"),
 ac_no: 1111003,
 cus_id: 'cus003',
 branch_id: 'br002',
 balance: 3000
},
 _id: ObjectId("6541873df1a2c5c7b3297949"),
 ac_no: 1111004,
 cus_id: 'cus004',
 branch_id: 'br002',
 balance: 5000
},
 _id: ObjectId("6541873df1a2c5c7b329794a"),
 ac_no: 1111005,
 cus_id: 'cus005',
 branch_id: 'br003',
 balance: 3000
},
 _id: ObjectId("6541873df1a2c5c7b329794b"),
 ac_no: 1111006,
 cus_id: 'cus006',
 branch_id: 'br003',
 balance: 5000
},
```

```
_id: ObjectId("6541873df1a2c5c7b329794c"),
  ac_no: 1111007,
  cus_id: 'cus007',
  branch id: 'br004',
  balance: 400
 },
  id: ObjectId("6541873df1a2c5c7b329794d"),
  ac no: 1111008,
  cus id: 'cus008',
  branch_id: 'br004',
  balance: 2000
bank>
db.branch.insertMany([{id:"br001",name:"UBION",city:"Sangamner",assets:20000},{
id:"br002",name:"UBION",city:"mumbai",assets:20000},{id:"br003",name:"UBION"
,city:"pune",assets:2000},{id:"br004",name:"UBION",city:"Nasik",assets:10000}]);
 acknowledged: true,
 insertedIds: {
  '0': ObjectId("654188ebf1a2c5c7b329794e"),
  '1': ObjectId("654188ebf1a2c5c7b329794f"),
  '2': ObjectId("654188ebf1a2c5c7b3297950"),
  '3': ObjectId("654188ebf1a2c5c7b3297951")
bank> db.branch.find();
  id: ObjectId("654188ebf1a2c5c7b329794e"),
  id: 'br001',
  name: 'UBION',
```

```
city: 'Sangamner',
  assets: 20000
 },
  id: ObjectId("654188ebf1a2c5c7b329794f"),
  id: 'br002',
  name: 'UBION',
  city: 'mumbai',
  assets: 20000
 },
  id: ObjectId("654188ebf1a2c5c7b3297950"),
  id: 'br003',
  name: 'UBION',
  city: 'pune',
  assets: 2000
 },
  id: ObjectId("654188ebf1a2c5c7b3297951"),
  id: 'br004',
  name: 'UBION',
  city: 'Nasik',
  assets: 10000
1
bank>
db.customer.insertMany([{id:"cus001",name:"Pramod",street:"sangamner",city:"San
gamner"},{id:"cus002",name:"ABC",street:"sangamner",city:"Sangamner"},{id:"cus
003",name:"PQR",street:"sangamner"
city:"mumbai"},{id:"cus004",name:"Atre",street:"sangamner",city:"mumbai"},{id:"
cus005",name:"vwx",street:"sangamner",city:"pune"},{id:"cus006",name:"LMN",str
eet:"sangamner",city:"pune"},{id:"cus007",name:"STU",street:"sangamner"
,city:"Nasik"},{id:"cus008",name:"XYZ",street:"sangamner",city:"Nasik"}]);
```

```
acknowledged: true,
 insertedIds: {
  '0': ObjectId("65418bdff1a2c5c7b3297952"),
  '1': ObjectId("65418bdff1a2c5c7b3297953"),
  '2': ObjectId("65418bdff1a2c5c7b3297954"),
  '3': ObjectId("65418bdff1a2c5c7b3297955"),
  '4': ObjectId("65418bdff1a2c5c7b3297956"),
  '5': ObjectId("65418bdff1a2c5c7b3297957"),
  '6': ObjectId("65418bdff1a2c5c7b3297958"),
  '7': ObjectId("65418bdff1a2c5c7b3297959")
bank> db.customer.find();
_id: ObjectId("65418bdff1a2c5c7b3297952"),
  id: 'cus001',
  name: 'Pramod',
  street: 'sangamner',
  city: 'Sangamner'
 },
  id: ObjectId("65418bdff1a2c5c7b3297953"),
  id: 'cus002',
  name: 'ABC',
  street: 'sangamner',
  city: 'Sangamner'
 },
  id: ObjectId("65418bdff1a2c5c7b3297954"),
  id: 'cus003',
  name: 'PQR',
```

```
street: 'sangamner',
 city: 'mumbai'
},
 _id: ObjectId("65418bdff1a2c5c7b3297955"),
 id: 'cus004',
 name: 'Atre',
 street: 'sangamner',
 city: 'mumbai'
},
 _id: ObjectId("65418bdff1a2c5c7b3297956"),
 id: 'cus005',
 name: 'vwx',
 street: 'sangamner',
 city: 'pune'
},
 _id: ObjectId("65418bdff1a2c5c7b3297957"),
 id: 'cus006',
 name: 'LMN',
 street: 'sangamner',
 city: 'pune'
},
 _id: ObjectId("65418bdff1a2c5c7b3297958"),
 id: 'cus007',
 name: 'STU',
 street: 'sangamner',
 city: 'Nasik'
},
```

```
_id: ObjectId("65418bdff1a2c5c7b3297959"),
  id: 'cus008',
  name: 'XYZ',
  street: 'sangamner',
  city: 'Nasik'
]
bank> db.customer.find({city:"Nasik"});
[
  _id: ObjectId("65418bdff1a2c5c7b3297958"),
  id: 'cus007',
  name: 'STU',
  street: 'sangamner',
  city: 'Nasik'
 },
  _id: ObjectId("65418bdff1a2c5c7b3297959"),
  id: 'cus008',
  name: 'XYZ',
  street: 'sangamner',
  city: 'Nasik'
 }
bank> db.branch.find({$or:[{city:"pune"},{asset:{$gt:3000}}]});
[
  _id: ObjectId("654188ebf1a2c5c7b3297950"),
  id: 'br003',
  name: 'UBION',
  city: 'pune',
  assets: 2000
```

```
}
]
bank> db.branch.find({assets:{$gt:3000}},{city:"Nasik"});
{ _id: ObjectId("654188ebf1a2c5c7b329794e"), city: 'Nasik' },
 { _id: ObjectId("654188ebf1a2c5c7b329794f"), city: 'Nasik' },
 { _id: ObjectId("654188ebf1a2c5c7b3297951"), city: 'Nasik' }
]
bank> db.account.find().sort({balance:-1});
[
  _id: ObjectId("6541873df1a2c5c7b3297946"),
  ac_no: 1111001,
  cus_id: 'cus001',
  branch_id: 'br001',
  balance: 30000
 },
  _id: ObjectId("6541873df1a2c5c7b3297947"),
  ac_no: 1111002,
  cus id: 'cus002',
  branch id: 'br001',
  balance: 10000
 },
  _id: ObjectId("6541873df1a2c5c7b3297949"),
  ac_no: 1111004,
  cus_id: 'cus004',
  branch_id: 'br002',
  balance: 5000
 },
```

```
_id: ObjectId("6541873df1a2c5c7b329794b"),
 ac_no: 1111006,
 cus_id: 'cus006',
 branch_id: 'br003',
 balance: 5000
},
 _id: ObjectId("6541873df1a2c5c7b3297948"),
 ac_no: 1111003,
 cus_id: 'cus003',
 branch_id: 'br002',
 balance: 3000
},
 _id: ObjectId("6541873df1a2c5c7b329794a"),
 ac_no: 1111005,
 cus id: 'cus005',
 branch id: 'br003',
 balance: 3000
},
 _id: ObjectId("6541873df1a2c5c7b329794d"),
 ac_no: 1111008,
 cus_id: 'cus008',
 branch_id: 'br004',
 balance: 2000
},
 _id: ObjectId("6541873df1a2c5c7b329794c"),
 ac_no: 1111007,
 cus id: 'cus007',
 branch id: 'br004',
```

```
balance: 400
 }
]
bank> db.account.update({balance:{$lt:1000}},{$inc:{balance:3000}});
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or
bulkWrite.
 acknowledged: true,
 insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
bank> db.account.find().sort({balance:-1});
ſ
  id: ObjectId("6541873df1a2c5c7b3297946"),
  ac no: 1111001,
  cus id: 'cus001',
  branch_id: 'br001',
  balance: 30000
 },
  _id: ObjectId("6541873df1a2c5c7b3297947"),
  ac_no: 1111002,
  cus id: 'cus002',
  branch id: 'br001',
  balance: 10000
 },
  _id: ObjectId("6541873df1a2c5c7b3297949"),
  ac_no: 1111004,
```

```
cus_id: 'cus004',
 branch_id: 'br002',
 balance: 5000
 _id: ObjectId("6541873df1a2c5c7b329794b"),
 ac_no: 1111006,
 cus_id: 'cus006',
 branch_id: 'br003',
 balance: 5000
},
 _id: ObjectId("6541873df1a2c5c7b329794c"),
 ac_no: 1111007,
 cus_id: 'cus007',
 branch_id: 'br004',
 balance: 3400
},
 _id: ObjectId("6541873df1a2c5c7b3297948"),
 ac_no: 1111003,
 cus_id: 'cus003',
 branch_id: 'br002',
 balance: 3000
},
 _id: ObjectId("6541873df1a2c5c7b329794a"),
 ac_no: 1111005,
 cus_id: 'cus005',
 branch_id: 'br003',
 balance: 3000
},
```

```
{
  _id: ObjectId("6541873df1a2c5c7b329794d"),
  ac_no: 1111008,
  cus_id: 'cus008',
  branch id: 'br004',
  balance: 2000
bank> db.account.find({assets:{$gt:3000,$lt:5000}});
bank> db.account.find().sort({balance:-1});
_id: ObjectId("6541873df1a2c5c7b3297946"),
  ac_no: 1111001,
  cus_id: 'cus001',
  branch_id: 'br001',
  balance: 30000
 },
  _id: ObjectId("6541873df1a2c5c7b3297947"),
  ac_no: 1111002,
  cus_id: 'cus002',
  branch_id: 'br001',
  balance: 10000
 },
  _id: ObjectId("6541873df1a2c5c7b3297949"),
  ac_no: 1111004,
  cus_id: 'cus004',
  branch_id: 'br002',
  balance: 5000
 },
```

```
{
  _id: ObjectId("6541873df1a2c5c7b329794b"),
  ac_no: 1111006,
  cus_id: 'cus006',
  branch_id: 'br003',
  balance: 5000
 },
  _id: ObjectId("6541873df1a2c5c7b3297948"),
  ac_no: 1111003,
  cus_id: 'cus003',
  branch_id: 'br002',
  balance: 3000
 },
  _id: ObjectId("6541873df1a2c5c7b329794a"),
  ac_no: 1111005,
  cus_id: 'cus005',
  branch_id: 'br003',
  balance: 3000
 },
  _id: ObjectId("6541873df1a2c5c7b329794d"),
  ac_no: 1111008,
  cus_id: 'cus008',
  branch_id: 'br004',
  balance: 2000
bank> db.customer.update({name:"XYZ"},{$set:{city:"Mumbai"}});
 acknowledged: true,
```

```
insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
bank> db.customer.find()
_id: ObjectId("65418bdff1a2c5c7b3297959"),
  id: 'cus008',
  name: 'XYZ',
  street: 'sangamner',
  city: 'Mumbai'
 }
]
bank> db.branch.drop()
true
bank> db.branch.find()
test> use student
switched to db student
db.stud.insertOne({id:1,name:"Pramod",address:"sangamner",mono:9112904855});
 acknowledged: true,
 insertedId: ObjectId("6543a87599c6af16de25c4b7")
```

```
student>
db.stud.insertMany([{id:2,name:"Atre",address:"Nasik",mono:9112900000},{id:3,nam
e:"Haral",address:"Nasik",mono:91129000},{id:4,name:"Shubham",address:"Nasik",
mono:9112900},{id:5,name:"Sidhi",address:"Sangamner",mono:911290},{id:6,name:"s
hub",address:"Pune",mono:9112}]);
 acknowledged: true,
 insertedIds: {
  '0': ObjectId("6543aa5f99c6af16de25c4b8"),
  '1': ObjectId("6543aa5f99c6af16de25c4b9"),
  '2': ObjectId("6543aa5f99c6af16de25c4ba"),
  '3': ObjectId("6543aa5f99c6af16de25c4bb"),
  '4': ObjectId("6543aa5f99c6af16de25c4bc")
student> db.stud.find().explain();
 explainVersion: '1',
 queryPlanner: {
  namespace: 'student.stud',
  indexFilterSet: false,
  parsedQuery: {},
  queryHash: '17830885',
  planCacheKey: '17830885',
  maxIndexedOrSolutionsReached: false,
  maxIndexedAndSolutionsReached: false,
  maxScansToExplodeReached: false,
  winningPlan: { stage: 'COLLSCAN', direction: 'forward' },
  rejectedPlans: []
 },
 command: { find: 'stud', filter: {}, '$db': 'student' },
 serverInfo: {
  host: 'pramod',
```

```
port: 27017,
  version: '6.0.5',
  gitVersion: 'c9a99c120371d4d4c52cbb15dac34a36ce8d3b1d'
 },
 serverParameters: {
  internalQueryFacetBufferSizeBytes: 104857600,
  internalQueryFacetMaxOutputDocSizeBytes: 104857600,
  internalLookupStageIntermediateDocumentMaxSizeBytes: 104857600,
  internalDocumentSourceGroupMaxMemoryBytes: 104857600,
  internalQueryMaxBlockingSortMemoryUsageBytes: 104857600,
  internalQueryProhibitBlockingMergeOnMongoS: 0,
  internalQueryMaxAddToSetBytes: 104857600,
  internalDocumentSourceSetWindowFieldsMaxMemoryBytes: 104857600
 },
 ok: 1
student> db.stud.ensureIndex({id:1,address:1});
['id 1 address 1']
student> db.stud.find().explain("executionStats");
{
 explainVersion: '1',
 queryPlanner: {
  namespace: 'student.stud',
  indexFilterSet: false,
  parsedQuery: {},
  queryHash: '17830885',
  planCacheKey: '17830885',
  maxIndexedOrSolutionsReached: false,
  maxIndexedAndSolutionsReached: false,
  maxScansToExplodeReached: false,
  winningPlan: { stage: 'COLLSCAN', direction: 'forward' },
  rejectedPlans: []
```

```
},
executionStats: {
 executionSuccess: true,
 nReturned: 6,
 executionTimeMillis: 0,
 totalKeysExamined: 0,
 totalDocsExamined: 6,
 executionStages: {
  stage: 'COLLSCAN',
  nReturned: 6,
  executionTimeMillisEstimate: 0,
  works: 8,
  advanced: 6,
  needTime: 1,
  needYield: 0,
  saveState: 0,
  restoreState: 0,
  isEOF: 1,
  direction: 'forward',
  docsExamined: 6
 }
command: { find: 'stud', filter: {}, '$db': 'student' },
serverInfo: {
 host: 'pramod',
 port: 27017,
 version: '6.0.5',
 gitVersion: 'c9a99c120371d4d4c52cbb15dac34a36ce8d3b1d'
},
serverParameters: {
 internalQueryFacetBufferSizeBytes: 104857600,
 internalQueryFacetMaxOutputDocSizeBytes: 104857600,
```

```
internalLookupStageIntermediateDocumentMaxSizeBytes: 104857600,
  internalDocumentSourceGroupMaxMemoryBytes: 104857600,
  internalQueryMaxBlockingSortMemoryUsageBytes: 104857600,
  internalQueryProhibitBlockingMergeOnMongoS: 0,
  internalQueryMaxAddToSetBytes: 104857600,
  internalDocumentSourceSetWindowFieldsMaxMemoryBytes: 104857600
 },
 ok: 1
student> db.stud.getIndexes()
{ v: 2, key: { _id: 1 }, name: '_id_' },
 { v: 2, key: { id: 1, address: 1 }, name: 'id 1 address 1' }
]
student> db.stud1.createIndex({id:1,address:1});
id_1_address_1
student> db.stud1.getIndexes()
ſ
 { v: 2, key: { id: 1 }, name: ' id ' },
 { v: 2, key: { id: 1, address: 1 }, name: 'id 1 address 1' }
1
student> db.stud.find({address:"Nasik"}).explain("executionStats");
 explainVersion: '1',
 queryPlanner: {
  namespace: 'student.stud',
  indexFilterSet: false,
  parsedQuery: { address: { '$eq': 'Nasik' } },
  queryHash: '67A566EC',
  planCacheKey: 'BD9CCA81',
  maxIndexedOrSolutionsReached: false,
  maxIndexedAndSolutionsReached: false,
```

```
maxScansToExplodeReached: false,
 winningPlan: {
  stage: 'COLLSCAN',
  filter: { address: { '$eq': 'Nasik' } },
  direction: 'forward'
 },
 rejectedPlans: []
},
executionStats: {
 executionSuccess: true,
 nReturned: 3,
 executionTimeMillis: 0,
 totalKeysExamined: 0,
 totalDocsExamined: 6,
 executionStages: {
  stage: 'COLLSCAN',
  filter: { address: { '$eq': 'Nasik' } },
  nReturned: 3,
  executionTimeMillisEstimate: 0,
  works: 8,
  advanced: 3,
  needTime: 4,
  needYield: 0,
  saveState: 0,
  restoreState: 0,
  isEOF: 1,
  direction: 'forward',
  docsExamined: 6
command: { find: 'stud', filter: { address: 'Nasik' }, '$db': 'student' },
serverInfo: {
```

```
host: 'pramod',
  port: 27017,
  version: '6.0.5',
  gitVersion: 'c9a99c120371d4d4c52cbb15dac34a36ce8d3b1d'
 },
 serverParameters: {
  internalQueryFacetBufferSizeBytes: 104857600,
  internalQueryFacetMaxOutputDocSizeBytes: 104857600,
  internalLookupStageIntermediateDocumentMaxSizeBytes: 104857600,
  internalDocumentSourceGroupMaxMemoryBytes: 104857600,
  internalQueryMaxBlockingSortMemoryUsageBytes: 104857600,
  internalQueryProhibitBlockingMergeOnMongoS: 0,
  internalQueryMaxAddToSetBytes: 104857600,
  internalDocumentSourceSetWindowFieldsMaxMemoryBytes: 104857600
 },
 ok: 1
student> db.stud1.find();
id: ObjectId("6543ada499c6af16de25c4bd"),
  id: 2,
  name: 'Atre',
  address: 'Nasik',
  mono: 9112900000
 },
  _id: ObjectId("6543ada499c6af16de25c4be"),
  id: 3,
  name: 'Haral',
  address: 'Nasik',
  mono: 91129000
```

```
},
  _id: ObjectId("6543ada499c6af16de25c4bf"),
  id: 4,
  name: 'Shubham',
  address: 'Nasik',
  mono: 9112900
 },
  _id: ObjectId("6543ada499c6af16de25c4c0"),
  id: 5,
  name: 'Sidhi',
  address: 'Sangamner',
  mono: 911290
 },
  _id: ObjectId("6543ada499c6af16de25c4c1"),
  id: 6,
  name: 'shub',
  address: 'Pune',
  mono: 9112
]
```

Assignment no 03

```
>use student
> db.student.insert({"std name":"Atre","sub name":"toc","sub marks":86});
WriteResult({ "nInserted" : 1 })
> db.student.insert({"std_name":"Atre","sub_name":"os","sub_marks":80});
WriteResult({ "nInserted" : 1 })
> db.student.insert({"std_name":"Atre","sub_name":"Adbms","sub_marks":81});
WriteResult({ "nInserted" : 1 })
> db.student.insert({"std name":"Sanket","sub name":"Adbms","sub marks":80});
WriteResult({ "nInserted" : 1 })
> db.student.insert({"std_name":"Sanket","sub_name":"os","sub_marks":88});
WriteResult({ "nInserted" : 1 })
> db.student.insert({"std_name":"Sanket","sub_name":"toc","sub_marks":98});
WriteResult({ "nInserted" : 1 })
> db.student.insert({"std_name":"Pramod","sub_name":"toc","sub_marks":98});
WriteResult({ "nInserted" : 1 })
> db.student.insert({"std_name":"Pramod","sub_name":"os","sub_marks":88});
WriteResult({ "nInserted" : 1 })
> db.student.insert({"std_name":"Pramod","sub_name":"Adbms","sub_marks":88});
WriteResult({ "nInserted" : 1 })
> var map =function(){emit(this.std name,this.sub marks);};
> var reduce = function(std name, sub marks) { return Array.sum(sub marks); };
> db.student.mapReduce(map,reduce,{out:'total'});
      "result": "total",
      "timeMillis": 663,
      "counts": {
             "input": 9,
             "emit": 9,
             "reduce": 3,
             "output": 3
       "ok" : 1
> db.total.find();
{ " id" : "Atre", "value" : 247 }
{ " id" : "Pramod", "value" : 274 }
{ " id" : "Sanket", "value" : 266 }
> db.student.find();
{ " id" : ObjectId("654359252281a926512802fc"), "std name" : "Atre", "sub name" : "toc",
"sub marks" : 86 }
{ "id" : ObjectId("6543593a2281a926512802fd"), "std_name" : "Atre", "sub_name" : "os",
"sub marks": 80 }
{ " id" : ObjectId("6543594d2281a926512802fe"), "std_name" : "Atre", "sub_name" :
"Adbms", "sub_marks" : 81 }
{ " id" : ObjectId("6543595c2281a926512802ff"), "std name" : "Sanket", "sub name" :
"Adbms", "sub_marks" : 80 }
{ " id" : ObjectId("654359672281a92651280300"), "std name" : "Sanket", "sub name" :
"os", "sub marks": 88 }
```

```
{ "_id" : ObjectId("654359712281a92651280301"), "std_name" : "Sanket", "sub_name" :
"toc", "sub_marks" : 98 }
{ "_id" : ObjectId("654359822281a92651280302"), "std_name" : "Pramod", "sub_name" :
"toc", "sub_marks" : 98 }
{ "_id" : ObjectId("6543598e2281a92651280303"), "std_name" : "Pramod", "sub_name" :
"os", "sub_marks" : 88 }
{ "_id" : ObjectId("6543599b2281a92651280304"), "std_name" : "Pramod", "sub_name" :
"Adbms", "sub_marks" : 88 }
> db.total.find();
{ "_id" : "Atre", "value" : 247 }
{ "_id" : "Pramod", "value" : 274 }
{ "_id" : "Sanket", "value" : 266 }
```