# Task 1:

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/mydb";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   console.log("Database created!");
   db.close();
});
```

### Database created!

# Task2:

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbo = db.db("mydb");
   dbo.createCollection("customers", function(err, res) {
     if (err) throw err;
     console.log("Collection created!");
     db.close();
   });
}
```

Collection created!

### Task3:

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("mydb");
    var myobj = { name: "ALi ", address: "Khanewal" };
    dbo.collection("customers").insertOne(myobj, function(err, res) {
        if (err) throw err;
        console.log("1 document inserted");
        db.close();
    });
});
```

### 1 document inserted

# Task 4:

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbo = db.db("mydb");
   var myobj = [
      { name: 'John', address: 'Highway 71'},
      { name: 'Peter', address: 'Lowstreet 4'},
      { name: 'Amy', address: 'Apple st 652'},
      { name: 'Hannah', address: 'Mountain 21'},
      { name: 'Michael', address: 'Valley 345'},
```

```
{ name: 'Sandy', address: 'Ocean blvd 2'},
  { name: 'Betty', address: 'Green Grass 1'},
  { name: 'Richard', address: 'Sky st 331'},
  { name: 'Susan', address: 'One way 98'},
  { name: 'Vicky', address: 'Yellow Garden 2'},
  { name: 'Ben', address: 'Park Lane 38'},
  { name: 'William', address: 'Central st 954'},
  { name: 'Chuck', address: 'Main Road 989'},
  { name: 'Viola', address: 'Sideway 1633'}
 ];
 dbo.collection("customers").insertMany(myobj, function(err, res) {
  if (err) throw err;
  console.log("Number of documents inserted: " + res.insertedCount);
  db.close();
 });
});
```

#### Number of documents inserted: 14

## Task 5:

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("mydb");
  var myobj = [
    { _id: 180, name: 'Chocolate Heaven'},
    { _id: 181, name: 'Tasty Lemon'},
    { _id: 182, name: 'Vanilla Dream'}
};
```

```
dbo.collection("products").insertMany(myobj, function(err, res) {
         if (err) throw err;
         console.log(res);
         db.close();
        });
});
  result: { ok: 1, n: 3 },
        id: 180, name: 'Chocolate Heaven' },
       _id: 181, name: 'Tasty Lemon' },
_id: 182, name: 'Vanilla Dream' }
  insertedCount: 3,
  insertedIds: { '0': 180, '1': 181, '2': 182 }
Task 6:
       var MongoClient = require('mongodb').MongoClient;
       var url = "mongodb://localhost:27017/";
       MongoClient.connect(url, function(err, db) {
        if (err) throw err;
        var dbo = db.db("mydb");
        dbo.collection("customers").findOne({}, function(err, result) {
         if (err) throw err;
         console.log(result.name);
         db.close();
        });
});
Task 7:
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";
```

MongoClient.connect(url, function(err, db) {

```
if (err) throw err;
 var dbo = db.db("mydb");
 dbo.collection("customers").find({}).toArray(function(err, result) {
  if (err) throw err;
  console.log(result);
  db.close();
 });
});
    _id: 5d96382e156fbd11288ae2c4,
    name: 'John',
    address: 'Highway 71'
     id: 5d96382e156fbd11288ae2c5,
    name: 'Peter',
address: 'Lowstreet 4'
     _id: 5d96382e156fbd11288ae2c6,
    name: 'Amy',
    address: 'Apple st 652'
     id: 5d96382e156fbd11288ae2c7,
    name: 'Hannah',
    address: 'Mountain 21'
Task 8:
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";
MongoClient.connect(url, function(err, db) {
 if (err) throw err;
 var dbo = db.db("mydb");
```

```
var query = { address: "Park Lane 38" };
dbo.collection("customers").find(query).toArray(function(err, result) {
  if (err) throw err;
  console.log(result);
  db.close();
  });
});
```

# Task 9:

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbo = db.db("mydb");
   var mysort = { name: 1 };
   dbo.collection("customers").find().sort(mysort).toArray(function(err, result) {
     if (err) throw err;
}
```

```
console.log(result);
db.close();
});
});
```

```
{ _id: 5d96382e156fbd11288ae2d1, name: 'ALi', address: 'lahore' },
{ _id: 5d987be05f09c528c4df4430, name: 'ALi', address: 'Khanewal' },
{
    _id: 5d96382e156fbd11288ae2c6,
    name: 'Amy',
    address: 'Apple st 652'
},
{
    _id: 5d987c805a76be0a9459bd05,
    name: 'Amy',
    address: 'Apple st 652'
},
{
    _id: 5d96382e156fbd11288ae2ce,
    name: 'Ben',
    address: 'Park Lane 38'
```

### **Task 10:**

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbo = db.db("mydb");
   var myquery = { address: 'Mountain 21' };
   dbo.collection("customers").deleteOne(myquery, function(err, obj) {
     if (err) throw err;
     console.log("1 document deleted");
     db.close();
   });
```

### 1 document deleted

# **Task 11:**

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbo = db.db("mydb");
   var myquery = { address: /^O/ };
   dbo.collection("customers").deleteMany(myquery, function(err, obj) {
      if (err) throw err;
      console.log(obj.result.n + " document(s) deleted");
      db.close();
   });
});

4 document(s) deleted
```

# **Task 12:**

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("mydb");
```

```
dbo.collection("customers").drop(function(err, delOK) {
   if (err) throw err;
   if (delOK) console.log("Collection deleted");
   db.close();
});
```

### Collection deleted

### **Task 13:**

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://127.0.0.1:27017/";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("mydb");
    var myquery = { address: "Valley 345" };
    var newvalues = { $set: {name: "Mickey", address: "Canyon 123" } };
    dbo.collection("customers").updateOne(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log("1 document updated");
        db.close();
    });
});
```

1 document updated

# **Task 14:**

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbo = db.db("mydb");
   dbo.collection("customers").find().limit(5).toArray(function(err, result) {
     if (err) throw err;
     console.log(result);
     db.close();
   });
}
```

# **Task 15:**

```
localField: 'product_id',
    foreignField: '_id',
    as: 'orderdetails'
    }
    ]).toArray(function(err, res) {
    if (err) throw err;
    console.log(JSON.stringify(res));
    db.close();
    });
```