```
> db.sales.aggregate([{$group:{_id:null, maxpara:{$max:'$quantity'}}},{$project:{_id:0}}])
<{
    maxpara: 30
}

> db.sales.aggregate([{$group:{_id:'item', maxpara:{$max:'$quantity'}}},])
<{
    __id: 'item',
    maxpara: 30
}

> db.sales.aggregate([{$group:{_id:'$item', maxpara:{$max:'$quantity'}}}])
<{
    __id: 'Cappuccino',
    maxpara: 20
}
{
    __id: 'Lattes',
    maxpara: 30
}
{
    __id: 'Mochas',
    maxpara: 11
}
{
    __id: 'Americanos',
    maxpara: 22
}</pre>
```

```
> db.sales.aggregate([
   {
     $addFields: {
       totalSale: { $multiply: ["$price", "$quantity"] }
     }
   },
   {
     $sort: { item: 1, totalSale: -1 }
   },
   {
     $group: {
       _id: "$item",
       salesList: { $push: "$totalSale" }
     }
   },
   {
     $project: {
       secondMaxSale: { $arrayElemAt: ["$salesList", 1] }
     }
   }
 1)
   _id: 'Cappuccino',
   secondMaxSale: 140
 }
 {
   _id: 'Lattes',
   secondMaxSale: 375
```

```
> db.users.deleteOne({name:"johny"})
 < {
      acknowledged: true,
      deletedCount: 1
   }
 > db.users.createIndex({email:1}, {unique:1})
 < email_1</pre>
 > db.locations.insertOne({address:"Downtown San Jose, CA, USA", lat: 37.335480, long:-121.89302
    acknowledged: true,
    insertedId: ObjectId('6841a41b9e1e02d8e4292394')
 > db.locations.createIndex({lat:1, long:1},{uniques:true})
 < lat_1_long_1</pre>
package connection;
import com.mongodb.MongoClient;
import com.mongodb.MongoCredential;
import com.mongodb.client.MongoDatabase;
public class mongoDB {
       public static void main(String[] args) {
              try {
      MongoClient db
       = new MongoClient("localhost", 27017);
      MongoCredential credential;
      credential
       = MongoCredential
           .createCredential(
             "GFGUser", "mongoDb",
             "password".toCharArray());
```

```
System.out.println(

"Successfully Connected"

+ " to the database");

MongoDatabase database

= db.getDatabase("mongoDb");

System.out.println("Credentials are: "

+ credential);
}

catch (Exception e) {

System.out.println(

"Connection establishment failed");

System.out.println(e);
}
```

}