## TE IT

Name: Omkar Gurav

than or equal to 250 pages.

Roll No: 8048

Implement Map reduce function with suitable example using MongoDB. The collection books for which the document structure as shown below db.createCollection("books"); db.books.find(); { "\_id" : ObjectId("5426522c517b30434f6a2bd7"), "name" : "Understanding JAVA", "pages": 100 } { "\_id" : ObjectId("54265231517b30434f6a2bd8"), "name" : "Understanding JSON", "pages": 200 } { "\_id" : ObjectId("54265249517b30434f6a2bd9"), "name" : "Understanding XML", "pages": 300 } { "\_id" : ObjectId("5426525e517b30434f6a2bda"), "name" : "Understanding Web Services", "pages": 400 } { "\_id" : ObjectId("54265272517b30434f6a2bdb"), "name" : "Understanding Axis2", "pages": 150 } Using Map Reduce function find the number of books having pages less than 250 pages and greater

```
🔍 Command Prompt - mongo
                                                                                                                                                              use booksdatabase
switched to db booksdatabase
db.createCollection("books");
  "ok" : 1 }
 db.books.insert({ "_id" : ObjectId("5426522c517b30434f6a2bd7"), "name" : "Understanding JAVA", "pages" : 100})
WriteResult({ "nInserted" : 1 })
db.books.insert({ "_id" : ObjectId("54265231517b30434f6a2bd8"), "name" : "Understanding JSON", "pages" : 200})
WriteResult({ "nInserted" : 1 })
db.books.insert({ "_id" : ObjectId("54265249517b30434f6a2bd9"), "name" : "Understanding XML", "pages" : 300 })
WriteResult({ "nInserted" : 1 })
 db.books.insert({ "_id" : ObjectId("5426525e517b30434f6a2bda"), "name" : "Understanding Web Services", "pages" : 400 }
WriteResult({ "nInserted" : 1 })
db.books.insert({ "_id" : ObjectId("54265272517b30434f6a2bdb"), "name" : "Understanding Axis2", "pages" : 150 })
WriteResult({ "nInserted" : 1 })
 db.books.find();
 db.books.find();
"_id" : ObjectId("5426522c517b30434f6a2bd7"), "name" : "Understanding JAVA", "pages" : 100 }
"_id" : ObjectId("54265231517b30434f6a2bd8"), "name" : "Understanding JSON", "pages" : 200 }
"_id" : ObjectId("54265249517b30434f6a2bd9"), "name" : "Understanding XML", "pages" : 300 }
"_id" : ObjectId("5426525e517b30434f6a2bda"), "name" : "Understanding Web Services", "pages" : 400 }
"_id" : ObjectId("54265272517b30434f6a2bdb"), "name" : "Understanding Axis2", "pages" : 150 }
var map=function(){emit(this.pages>=250 ? "Greater than or equal to 250 pages":"Less than 250 pages",1);}
  var reduce=function(key, values){return Array.sum(values);}
  db.books.mapReduce(map, reduce, {out:"mapreduce"})
 "result" : "mapreduce", "ok" : 1 }
db.mapreduce.find().pretty()
  "_id" : "Greater than or equal to 250 pages", "value" : 2 }
  "_id" : "Less than 250 pages", "value" : 3 }
```