// Assignment No: 11

// Name: Shardool Babasaheb Patil

// Roll No.: 31158

db.books.insertMany([

{ title: "To Kill a Mockingbird", author: "Harper Lee", genre: "Fiction", price: 500, published\_year: 1960 },

{ title: "1984", author: "George Orwell", genre: "Dystopian", price: 450, published\_year: 1949 },

{ title: "The Great Gatsby", author: "F. Scott Fitzgerald", genre: "Classic", price: 400, published\_year: 1925 },

{ title: "Pride and Prejudice", author: "Jane Austen", genre: "Romance", price: 300, published\_year: 1813 },

{ title: "The Catcher in the Rye", author: "J.D. Salinger", genre: "Fiction", price: 350, published\_year: 1951 },

{ title: "Moby Dick", author: "Herman Melville", genre: "Adventure", price: 550, published\_year: 1851 },

{ title: "The Hobbit", author: "J.R.R. Tolkien", genre: "Fantasy", price: 600, published\_year: 1937 },

{ title: "War and Peace", author: "Leo Tolstoy", genre: "Historical Fiction", price: 700, published\_year: 1869 },

{ title: "The Book Thief", author: "Markus Zusak", genre: "Historical Fiction", price: 480, published\_year: 2005 },

{ title: "The Alchemist", author: "Paulo Coelho", genre: "Adventure", price: 320, published\_year: 1988 }

]);

var mapFunctionSum = function() {

emit("totalPrice", this.price);

};

var reduceFunctionSum = function(key, values) {

return Array.sum(values);

};

db.books.mapReduce(

mapFunctionSum,

reduceFunctionSum,

{ out: "total\_price" }

);

db.total\_price.find().pretty();

var mapFunctionAvg = function() {

emit("avgPrice", this.price);

};

var reduceFunctionAvg = function(key, values) {

return Array.avg(values);

};

db.books.mapReduce(

mapFunctionAvg,

reduceFunctionAvg,

{ out: "average\_price" }

);

db.average\_price.find().pretty();