**Practical no 11**

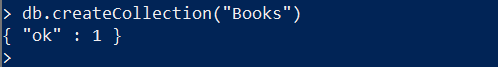
**Implement Map reduces operation with a suitable example using MongoDB.**

use College

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**create collections:-**

db.createCollection("Books")



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**insert records:-**

db.Books.insert({Roll\_no:1,Name:"Premraj",Book\_name:"I too had alove story",Type:"Ebook",Status:"P",Price:100})

db.Books.insert({Roll\_no:2,Name:"Nikita",Book\_name:"Wings Of Fire",Type:"Online",Status:"P",Price:101})

db.Books.insert({Roll\_no:1,Name:"Premraj",Book\_name:"Java Black Book",Type:"Ebook",Status:"U",Price:103})

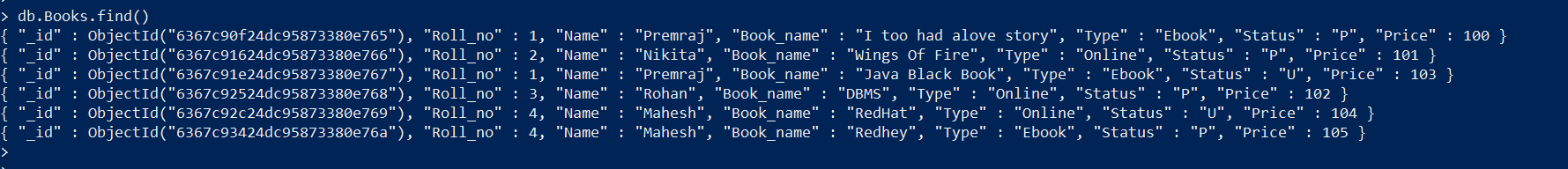
db.Books.insert({Roll\_no:3,Name:"Rohan",Book\_name:"DBMS",Type:"Online",Status:"P",Price:102})

db.Books.insert({Roll\_no:4,Name:"Mahesh",Book\_name:"RedHat",Type:"Online",Status:"U",Price:104})

db.Books.insert({Roll\_no:4,Name:"Mahesh",Book\_name:"Redhey",Type:"Ebook",Status:"P",Price:105})

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db.Books.find()



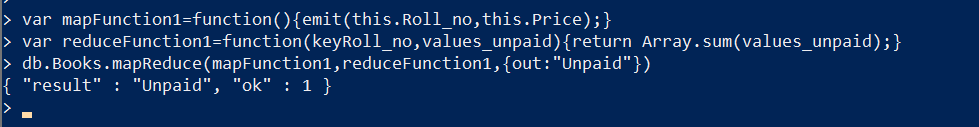
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**mapreduce functions:-**

var mapFunction1=function(){emit(this.Roll\_no,this.Price);}

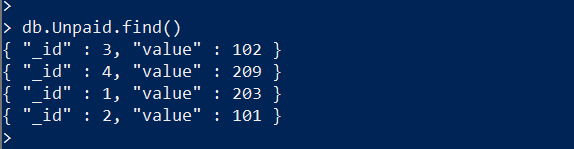
var reduceFunction1=function(keyRoll\_no,values\_unpaid){return Array.sum(values\_unpaid);}

db.Books.mapReduce(mapFunction1,reduceFunction1,{out:"Unpaid"})



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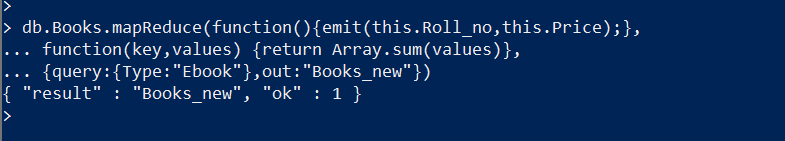
db.Unpaid.find()

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db.Books.mapReduce(function(){emit(this.Roll\_no,this.Price);},

function(key,values) {return Array.sum(values)},

{query:{Type:"Ebook"},out:"Books\_new"})



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db.Books\_new.find()

