**31253 – Assignment 11**

db.createCollection('Journal');

db.Journal.insert({'book\_id':1,'book\_name':'JavacdOOP','amt':500,'status':'Available'});

db.Journal.insert({'book\_id':1,'book\_name':'JavaOOP','amt':400,'status':'NotAvailable'});db.Journal.insert({'book\_id':1,'book\_name':'Java','amt':300,'status':'NotAvailable'});

db.Journal.insert({'book\_id':2,'book\_name':'Java','amt':300,'status':'Available'});

db.Journal.insert({'book\_id':2,'book\_name':'OPP','amt':200,'status':'Available'});

db.Journal.insert({'book\_id':2,'book\_name':'C+','amt':200,'status':'Available'});

db.Journal.insert({'book\_id':3,'book\_name':'C+','amt':150,'status':'Available'});

db.Journal.insert({'book\_id':3,'book\_name':'C++','amt':200,'status':'NotAvailable'});

db.Journal.insert({'book\_id':4,'book\_name':'OPP C++','amt':300,'status':'Not Available'});

db.Journal.insert({'book\_id':5,'book\_name':'OPPC++','amt':400,'status':'Available'});

db.Journal.insert({'book\_id':5,'book\_name':'C++','amt':400,'status':'Available'});

db.Journal.insert({'book\_id':5,'book\_name':'C++Java','amt':400,'status':'NotAvailable'});

var mapfunction=function(){ emit(this.book\_id,this.amt)};

var reducefunction=function(key,value){return Array.sum(value);};

db.Journal.mapReduce(mapfunction,reducefunction, {'out':'new'});

{

"result" : "new",

"timeMillis" : 49,

"counts" : {

"input" : 12,

"emit" : 12,

"reduce" : 4,

"output" : 5,

},

"ok" : 1

}

db.Journal.mapReduce(mapfunction,reducefunction,{'out':'new'}).find().pretty();

{ "\_id" : 1, "value" : 1200}

{ "\_id" : 2, "value" : 700 }

{ "\_id" : 3, "value" : 350 }

{ "\_id" : 4, "value" : 300 }

{ "\_id" : 5, "value" : 1200}

db.new.find().pretty();

{ "\_id" : 1, "value" : 1200 }

{ "\_id" : 2, "value" : 700 }

{ "\_id" : 3, "value" : 350 }

{ "\_id" : 4, "value" : 300 }

{ "\_id" : 5, "value" : 1200 }