**Assignment Group: B**

**Assignment NO 12**

**Assignment Title**:

MongoDB – Map-reduces operations: Implement Map reduces operation with

suitable example using MongoDB.\*/

gescoe@gescoe-OptiPlex-3010:~$ mongo

MongoDB shell version: 2.6.12

connecting to: test

> use TEB19;

switched to db TEB19

> db.Record.insert({"Branch":"Computer","Marks":950,"Division":"B"});

WriteResult({ "nInserted" : 1 })

> db.Record.insert({"Branch":"Computer","Marks":700,"Division":"B"});

WriteResult({ "nInserted" : 1 })

> db.Record.insert({"Branch":"AIDS","Marks":820,"Division":"A"});

WriteResult({ "nInserted" : 1 })

> db.Record.insert({"Branch":"AIDS","Marks":650,"Division":"B"});

WriteResult({ "nInserted" : 1 })

> db.Record.find().pretty();

{

"\_id" : ObjectId("66f12b91e8870de812a53430"),

"Branch" : "Computer",

"Marks" : 950,

"Division" : "B"

}

{

"\_id" : ObjectId("66f12bb4e8870de812a53431"),

"Branch" : "Computer",

"Marks" : 700,

"Division" : "B"

}

{

"\_id" : ObjectId("66f12bcce8870de812a53432"),

"Branch" : "AIDS",

"Marks" : 820,

"Division" : "A"

}

{

"\_id" : ObjectId("66f12be8e8870de812a53433"),

"Branch" : "AIDS",

"Marks" : 650,

"Division" : "B"

}

> db.Record.mapReduce(function(){emit(this.Branch, this.Marks);},

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

... { query : {Division : "B"}, out : "Total\_marks"

... }

... );

{

"result" : "Total\_marks",

"timeMillis" : 87,

"counts" : {

"input" : 3,

"emit" : 3,

"reduce" : 1,

"output" : 2

},

"ok" : 1

}

> show collections;

Record

Student

Total\_marks

System.indexes

> db.Total\_marks.find().pretty();

{ "\_id" : "AIDS", "value" : 650 }

{ "\_id" : "Computer", "value" : 1650 }

>