**GROUP: B) ASSIGNMENT NO: 03**

**AIM: MongoDB – Map-reduces operations:**

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

1. Return the Total Salary of per Company

db.emp.mapReduce( function() { emit(this.Company\_name, this.Salary);},

function(keyCompany\_name,Salary) {return Array.sum(Salary)}, { out: "result1" })

1. Return the Total Salary of Company Name:"TCS"

db.emp.mapReduce(

function() { emit(this.Company\_name, this.Salary);},

function(keyCompany\_name,Salary) {return Array.sum(Salary)},

{query:{Company\_name: "TCS"},out: "result2"})

1. Return the Avg Salary of Company whose address is “Pune".

db.emp.mapReduce(

function() { emit(this.address, this.Salary);},

function(keyaddress,Salary) {return Array.avg(Salary)},

{query:{address: "Pune"},out: "result3"})

1. Return the Total Salary for each Designation of Infosys.
2. Return total count for “State=AP”

db.emp.mapReduce(

function(){emit(1, 1);},

function(key, result){ return Array.sum(result);},

{query: {"Address.State":"AP"}, out: "result5"})

1. Return Count for State AP and Age greater than 40.

db.emp.mapReduce(

function(){emit(1, 1);},

function(key, result){ return Array.sum(result);},

{query: {"Address.State":"AP","Age": {"$gt" : 40 }},out: "result6"})