GROUP: B) ASSIGNMENT NO: 03

AIM: MongoDB – Map-reduces operations:

Implement Map reduces operation with suitable examples 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" })
   ```
2. 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"})
   ```
3. 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"})
   ```
4. Return the Total Salary for each Designation of Infosys.
5. 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"})
   ```
6. 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"})
   ```