**ASSIGNMENT-12**

**Source Code:**

package javaapplication2;

import com.mongodb.BasicDBObject;

import com.mongodb.DB;

import com.mongodb.DBCollection;

import com.mongodb.DBObject;

import com.mongodb.MapReduceCommand;

import com.mongodb.MapReduceOutput;

import com.mongodb.Mongo;

public class JavaApplication2 {

public static void main(String[] args)

{

Mongo mongo;

try

{

mongo = new Mongo("localhost", 27017);

DB db = mongo.getDB("order");

DBCollection orders = db.getCollection("data");

BasicDBObject data = new BasicDBObject();

data.put("cust\_id", 1020);

data.put("status", "A");

data.put("amount", 456);

orders.insert(data);

data = new BasicDBObject();

data.put("cust\_id", 1042);

data.put("status", "B");

data.put("amount", 1236);

orders.insert(data);

data = new BasicDBObject();

data.put("cust\_id", 1012);

data.put("status", "A");

data.put("amount", 5456);

orders.insert(data);

data = new BasicDBObject();

data.put("cust\_id", 1009);

data.put("status", "B");

data.put("amount", 1006);

orders.insert(data);

data = new BasicDBObject();

data.put("cust\_id", 1065);

data.put("status", "A");

data.put("amount", 4456);

orders.insert(data);

String map = "function() { "+

"var category; " +

"if ( this.status == 'A' ) "+

"category = 'Bill Paid'; " +

"else " +

"category = 'Bill to be Paid'; "+

"emit(category, {cust\_id: this.cust\_id});}";

String reduce = "function(key, values) { " +

"var sum = 0; " +

"values.forEach(function(doc) { " +

"sum += 1; "+

"}); " +

"return {orders: sum};} ";

MapReduceCommand cmd = new MapReduceCommand(orders, map, reduce,

null, MapReduceCommand.OutputType.INLINE, null);

MapReduceOutput out = orders.mapReduce(cmd);

for (DBObject o : out.results())

{

System.out.println(o.toString());

}

}

catch (Exception e)

{

e.printStackTrace();

}

}

}

**Output:**

run:

{ "\_id" : "Bill Paid" , "value" : { "orders" : 3.0}}

{ "\_id" : "Bill to be Paid" , "value" : { "orders" : 2.0}}

BUILD SUCCESSFUL (total time: 0 seconds)