**Aim:** Demonstrating MapReduce in MongoDB to count the number of female (F) and male (M) respondents in the database.

Run: Mongodb shell

**Command to create a Database**

---->use GenderData

**Command to create a Collection**

---->db.createCollection("Data")

**Command to view Collection**

---->show collections

**Command to insert multiple documents in Collection**

---->db.Data.insertMany([{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"F"},{"gender":"M"},{"gender":"M"},{"gender":"M"},{"gender":"M"},{"gender":"M"},{"gender":"M"},{"gender":"M"},{"gender":"M"},{"gender":"M"},{"gender":"M"}])

**Command to create map**

---->var map = function() {emit({ gender:this.gender }, { count:1});};

**Command to create reduce**

---->var reduce = function(key, values) {var count = 0;values.forEach(function(v) {count = count+1});return { count:count}};

**Command to store output in new collection**

---->db.Data.mapReduce(map,reduce,{out :"countResult"});

**Command to view final count result**

---->db.countResult.find()