

Implement Map reduces operation with suitable example using MongoDB.

```
db> use students;
```

switched to db students

```
students> db.createCollection("details");
```

```
{ ok: 1 }
```

```
students> db.details.insertMany([ {name:"Vaibhav", marks:96},  
{name:"Vaibhav", marks:86},{name:"Vaibhav", marks:92}, {name:"Amey",  
marks:87}, {name:"Amey", marks:74},{name:"Amey", marks:86 }]);
```

```
{  
  acknowledged: true,  
  insertedIds: {  
    '0': ObjectId("653fab39fd39fc552c9f7446"),  
    '1': ObjectId("653fab39fd39fc552c9f7447"),  
    '2': ObjectId("653fab39fd39fc552c9f7448"),  
    '3': ObjectId("653fab39fd39fc552c9f7449"),  
    '4': ObjectId("653fab39fd39fc552c9f744a"),  
    '5': ObjectId("653fab39fd39fc552c9f744b")  
  }  
}
```

```
students> var map = function(){ emit(this.name,this.marks);};
```

```
students> var reduce = function(name,marks) {return Array.sum(marks);};
```

```
students> db.details.mapReduce(map,reduce,{out:"Result"});
```

DeprecationWarning: Collection.mapReduce() is deprecated. Use an aggregation instead.

See <https://docs.mongodb.com/manual/core/map-reduce> for details.

```
{ result: 'Result', ok: 1 }
```

```
students> db.Result.find();
```

```
[ { _id: 'Vaibhav', value: 274 }, { _id: 'Amey', value: 247 } ]
```