Aggregation – Troubleshoot MapReduce

Troubleshoot Map Function

1. Define Map Function

```
> var map = function(){emit(this.store,this.available);};
```

2. Define Emit Function to print the output

```
> var emit = function(key,value){print("emit");print("key: " + key + "
value: " + tojson(value));}
```

3. Verify if you do get the expected key value pair for one document

```
> var myDoc = db.mybookstore.findOne({store:"cine book office"});
```

```
> map.apply(myDoc);
```

```
emit
key: cine book office value: 14
```

4. Verify if you do get the expected key value pair for multiple documents

```
> var myCursor = db.mybookstore.find({store:"cine book office"});
```

```
> while(myCursor.hasNext()){var doc = myCursor.next();print("document
_id " + tojson(doc._id));map.apply(doc);print();}
```

```
document _id 11
emit
key: cine book office value: 14

document _id 12
emit
key: cine book office value: 3
```

Troubleshoot Reduce Function

1. Define Reduce Function

```
> var reduceFunction1=function(keyStore,valuesAvailable){return
Array.sum(valuesAvailable);};
```

2. Declare array of integers

```
> var myTestValues = [5,5,10];
```

3. Apply Reduce Function and verify whether you are getting the expected Output.

```
> reduceFunction1('myKey',myTestValues);
```

```
20
```