Assignment No 10

- Aggregation
- **Displaying the Documents using sort**

❖ Sum of all Marks

```
> db.studMarks.aggregate({$group:{_id:"name", Total_Marks:{$sum:"$marks"}}})
< { __id: 'name', Total_Marks: 285 }</pre>
```

❖ Average of All Marks

```
> db.studMarks.aggregate({$group:{_id:"name", Average_Marks:{$avg:"$marks"}}})
< { _id: 'name', Average_Marks: 47.5 }</pre>
```

❖ Maximum Marks obtained

```
> db.studMarks.aggregate({$group:{_id:"name", Maximum_Marks:{$max:"$marks"}}})
< { _id: 'name', Maximum_Marks: 52 }</pre>
```

* Minimum Marks obtained

```
> db.studMarks.aggregate({$group:{_id:"name", Minimum_Marks:{$min:"$marks"}}})
< { __id: 'name', Minimum_Marks: 42 }</pre>
```

❖ Match and Project

```
> db.studMarks.aggregate({$match:{age:22}},{$project:{name:1,marks:1}})

< { _id: ObjectId("634e3314f4ee0bbaadbb2abd"),
    name: 'Tejas',
    marks: 47 }

{ _id: ObjectId("634e3368f4ee0bbaadbb2ac0"),
    name: 'Prathmesh Swami',
    marks: 48 }</pre>
```

❖ Indexing