```
a.1. tya> db.Class.aggregate([{$group: {_id: "$course", StudentCount:
{$sum: 1}}}])
  { _id: 'BScIT', StudentCount: 3 },
  { _id: 'BBI', StudentCount: 1 },
  { _id: 'BAF', StudentCount: 2 }
a.1. db.Class.aggregate([{$group: {_id: "$course", TotalFees: {$sum:
"$fees"}}}])
  { _id: 'BScIT', TotalFees: 87000 },
  { _id: 'BBI', TotalFees: 19000 },
  { _id: 'BAF', TotalFees: 48000 }
]
a.2. tya> db.Class.aggregate([{$group: {_id: "$course", AverageMarks:
{$avg: "$marks"}}}])
  { _id: 'BScIT', AverageMarks: 453.33333333333333},
  { _id: 'BBI', AverageMarks: 400 },
  { _id: 'BAF', AverageMarks: 485 }
]
a.3. tya> db.Class.aggregate([{$group: {_id: "$course", MinimumMarks:
{$min: "$marks"}}}])
  { _id: 'BScIT', MinimumMarks: 420 },
  { _id: 'BBI', MinimumMarks: 400 },
  { _id: 'BAF', MinimumMarks: 420 }
a.4. tya> db.Class.aggregate([{$group: {_id: "$course", MaximumMarks:
{$max: "$marks"}}}])
  { _id: 'BScIT', MaximumMarks: 490 },
  { _id: 'BBI', MaximumMarks: 400 },
  { _id: 'BAF', MaximumMarks: 550 }
b.1 tya> db.Class.aggregate([{$group: {_id: "$course", pushFees: {$push:
"$fees"}}}])
```

{ _id: 'BScIT', pushFees: [29000, 29000, 29000] },

{ _id: 'BBI', pushFees: [19000] },

]

{ _id: 'BAF', pushFees: [24000, 24000] }

b.2. tya> db.Class.aggregate([{\$group: {_id: "\$course", addToSetFees: {\$push: "\$fees"}}}])

```
[
    { _id: 'BScIT', addToSetFees: [ 29000, 29000, 29000 ] },
    { _id: 'BBI', addToSetFees: [ 19000 ] },
    { _id: 'BAF', addToSetFees: [ 24000, 24000 ] }
]
```

c.1. tya> db.Class.aggregate([{\$group: {_id: "\$course", firstMarks: {\$first: "\$marks"}}}])

```
[
    { _id: 'BScIT', firstMarks: 490 },
    { _id: 'BBI', firstMarks: 400 },
    { _id: 'BAF', firstMarks: 420 }
]
```

c.2. tya> db.Class.aggregate([{\$group: {_id: "\$course", lastMarks: {\$last: "\$marks"}}}])

```
[
    { _id: 'BScIT', lastMarks: 420 },
    { _id: 'BBI', lastMarks: 400 },
    { _id: 'BAF', lastMarks: 550 }
]
```