MongoDB Assignment(Veer)

Collection – students

Fields

- **name**
- **email**
- **course**
- **feesPaid**
- **joiningDate**

1. Insert a student named Prabhakarna Sripalawardhana Atapattu Jayasuriya Laxmansriramkrishna Shivavenkata Rajasekara Sriniwasana Trichipalli Yekya Parampeel Parambatur Chinnaswami Muthuswami Venugopal Iyer (Or just Venugopal), who joined the Java Full Stack course and paid ₹30,000.

Answer:

```
> db.students.insertOne({
    name : "Venugopal",
    course : "Java Full Stack",
    paid : 3000
});
< {
    acknowledged: true,
    insertedId: ObjectId('698377db765797d47c56e673')
}
```

2. Insert three students at once with the following details :

Name	Course	Fees
Superman	Python	20000
Spiderman	PHP	18000
Batman	Java	25000

Answer :

```
> db.students.insertMany([
  {
    name : "Superman",
    course : "Python",
    fees : 20000
  },
  {
    name : "Spiderman",
    course : "PHP",
    fees : 1800
  },
  {
    name : "Batman",
    course : "Java",
    fees : 2500
  }
]);
< {
    acknowledged: true,
    insertedIds: {
      '0': ObjectId('69837b6a765797d47c56e674'),
      '1': ObjectId('69837b6a765797d47c56e675'),
      '2': ObjectId('69837b6a765797d47c56e676')
    }
  }
```

3. Insert a student Gabbar Singh who is enrolled in the subjects(Array).

- **CSS**
- **JavaScript**
- **MongoDB**

Answer :

```
> db.students.insertOne({
    name : "Gabbar Singh",
    courses : ["CSS","JavaScript","MongoDB"]
  })
< {
    acknowledged: true,
    insertedId: ObjectId('69837be4765797d47c56e677')
  }
```

4. Store Address Details (Embedded Document) Insert a student Anthony Gonsalves with the following address:

- Location : Roop Mahal
- Street : Prem Gali
- House No : Kohli No 420

Answer :

```
> db.students.insertOne({
    name : "Anthony Gonsalves",
    address : {
                location : "Roop Mahal",
                street : "Prem Gali",
                houseNo : "Kholi No 420"
            }
  });
< {
    acknowledged: true,
    insertedId: ObjectId('69837c8b765797d47c56e678')
  }
```

5. Retrieve all documents from the students collection.

```
> db.students.find();
< {
    _id: ObjectId('698377db765797d47c56e673'),
    name: 'Venugopal',
    course: 'Java Full Stack',
    paid: 3000
  }
  {
    _id: ObjectId('69837b6a765797d47c56e674'),
    name: 'Superman',
    course: 'Python',
    fees: 20000
  }
  {
    _id: ObjectId('69837b6a765797d47c56e675'),
    name: 'Spiderman',
    course: 'PHP',
    fees: 1800
  }
```

```
  {
    _id: ObjectId('69837b6a765797d47c56e676'),
    name: 'Batman',
    course: 'Java',
    fees: 2500
  }
  {
    _id: ObjectId('69837be4765797d47c56e677'),
    name: 'Gabbar Singh',
    courses: [
      'CSS',
      'JavaScript',
      'MongoDB'
    ]
  }
  {
    _id: ObjectId('69837c8b765797d47c56e678'),
    name: 'Anthony Gonsalves',
    address: {
      location: 'Roop Mahal',
      street: 'Prem Gali',
      houseNo: 'Kholi No 420'
    }
  }
```

6. Retrieve all students whose course is Java.

```
> db.students.find({course : "Java"},{});
< {
    _id: ObjectId('698377db765797d47c56e673'),
    name: 'Venugopal',
    course: 'Java',
    paid: 3000
  }
  {
    _id: ObjectId('69837b6a765797d47c56e676'),
    name: 'Batman',
    course: 'Java',
    fees: 2500
  }
```

```
> db.students.find({course : "Java"});
< {
    _id: ObjectId('698377db765797d47c56e673'),
    name: 'Venugopal',
    course: 'Java',
    paid: 3000
  }
  {
    _id: ObjectId('69837b6a765797d47c56e676'),
    name: 'Batman',
    course: 'Java',
    fees: 2500
  }
```