Name: Naveen Shekhar Srivastava

Roll No: 2315001446

```
Find/Query Operation:
1.
db.students.find(
    { department: "IT" },
    { name: 1, cgpa: 1 }
)
2.
db.students.find(
    { cgpa: { $gte: 8.5 } },
    { roll_no: 1, name: 1, department: 1 }
)
3.
db.students.find(
    \{ department: \{ $in: ["ECE", "ME"] \} \}
)
4.
db.students.find(
    { year: 4, cgpa: { $gt: 8.0 } },
    { name: 1, cgpa: 1 }
)
```

```
5.
db.students.find(
    { $and: [
        { department: \{ ne: CSE' \} \},
        { cgpa: { $1te: 7.5 } }
    ] }
Sort / Pagination:
6.
db.students.find(
    {}
).sort({ cgpa: -1 }).limit(3);
7.
db.students.find(
    {}
).sort({ cgpa: -1 }).skip(3).limit(3);
Update Operations:
8.
db.students.updateMany(
    { department: "CSE" },
    { $inc: { cgpa: 0.2 } }
```

```
9.
db.students.updateMany(
    { cgpa: { $1t: 7.0 } },
    { $set: { department: "Probation" } }
)
10.
db.students.updateMany(
    { department: "ME" },
    { $unset: { email: '' } }
)
Bonus (Advanced):
11.
db.students.updateMany(
    {},
    { $rename: { "cgpa": "gpa" } }
)
12.
db.students.replaceOne(
    { roll_no: "CSE2104" },
        roll_no: "CSE2104",
```

)

```
name: "Virat Kohli",

department: "CSE",

year: 3,

gpa: 8.5
}
```