MongoDB Day -2 Task

Sample Data:

user	_id: ObjectId('65a64a5dd0e1f6d85d501e44') userId: 1 user_name: "Arun" codekata_solved_problems: Array mentor_id: 12
codekata	_id: ObjectId('65a67608d0e1f6d85d501e9a') problem_id: 123 problem_title: "Two Pointers (I)" users_solved: Array
attendance	_id: ObjectId('65a64d22d0e1f6d85d501e69') topic_id: 1 date: 2024-01-13T00:00:00.000+00:00 stu_present: Array stu_absent: Array
topics	_id:ObjectId('65a64d69d0e1f6d85d501e74') topic_id: 1 task_id: 1 date: 2024-01-13T00:00:00.000+00:00
tasks	_id: ObjectId('65a64e57d0e1f6d85d501e80') task_id: 1 task_topic: "Two Pointers (I)" date: 2024-01-13T00:00:00.000+00:00 stu_submitted: Array
company_drives	_id: ObjectId('65a64e9fd0e1f6d85d501e8b') drive_id: 1 company_name: "TechCorp" date: 2024-01-13T00:00:00.000+00:00 role: "Software Engineer" location: "CityA" max_ctc: 800000

```
applied_stu_id: Array
selected_stu_id: Array

_id: ObjectId('65a64f27d0e1f6d85d501e93')
mentor_id: 12
mentor_name: "MentorA"
course: Array (2)
mentees: Array (3)
```

1. Find all the topics and tasks which are thought in the month of October

2. Find all the company drives which appeared between 15 oct-2020 and 31-oct-2020

```
db.company_drives.find({ "date" : { $gte : ISODate("2024-10-15T00:00:00Z"), $lte : ISODate("2024-10-31T23:59:59Z")}})
```

3. Find all the company drives and students who are appeared for the placement.

```
db.company_drives.find({}, { "applied_stu_id": 1, "selected_stu_id": 1 })
```

```
db.company_drives.aggregate([
  $lookup: {
   from: "users",
   localField: "applied_stu_id",
   foreignField: "userld",
   as: "applied_students"
  }
 },
 {
  $lookup: {
   from: "users",
   localField: "selected_stu_id",
   foreignField: "userld",
   as: "selected students"
  }
 }
])
```

4. Find the number of problems solved by the user in codekata

5. Find all the mentors with who has the mentee's count more than 15

```
db.mentors.find({
    $where: "this.mentees.length > 15"
})
```

6. Find the number of users who are absent and task is not submitted between 15 oct-2020 and 31-oct-2020

```
db.attendance.find({
  "date": {
     $gte: ISODate("2024-10-15T00:00:00Z"),
     $lt: ISODate("2024-10-31T23:59:59Z")
   },
    "stu_absent": { $ne: [] },
    "stu_present": { $eq: [] }
}).count()
```