MongoDB-Task 2

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

```
db.topics.aggregate([
  {
     $lookup: {
        from: "tasks",
        localField: "topicid",
        foreignField: "topicid",
        as: "taskinfo"
     }
  },
     $match: {
        $and: [
               { topic_date: { $gte: new Date("2020-10-01"), $lt: new
       Date("2020-11-01") } },
          {
             $or: [
              { "taskinfo.due_date": { $gte: new Date("2020-10-01"), $lt: new
       Date("2020-11-01") } },
                { "taskinfo.due_date": { $exists: false } }
             ]
        ]
  },
     $project: {
        _id: 0,
        topicid: 1,
        topic: 1,
        topic_date: 1,
        tasks: "$taskinfo.task",
        due dates: "$taskinfo.due date"
  }
])
```

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

```
db.companydrives.find({
    $or: [
    { drive_date: { $gte: new Date("15-oct-2020") } },
    { drive_date: { $lte: new Date("31-oct-2020") } } ]
})
```

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

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

```
{ $group: {
    _id: { userid: "$userid", username: "$userinfo.name" },
    total_problems_solved: { $sum: "$problems"}
} },

{
    $project: { _id: 0,
    userid: "$_id.userid",
    username: "$_id.username",
    total_problems_solved: 1
}
} ])
```

5. Find all the mentors with who has the mentee's count more than 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.aggregate([
  {
     $lookup: {
       from: "topics",
       localField: "topicid",
       foreignField: "topicid",
        as: "topics"
     }
  },
  {
     $lookup: {
       from: "tasks",
        localField: "topicid",
       foreignField: "topicid",
        as: "tasks"
     }
  },
  {
     $match: {
        attended: false,
        "tasks.submitted": false,
        $and: [
          { "topics.topic date": { $gte: new Date("15-oct-2020") } },
          { "topics.topic date": { $lte: new Date("31-oct-2020") } },
          { "tasks.due_date": { $gte: new Date("15-oct-2020") } },
          { "tasks.due date": { $Ite: new Date("31-oct-2020") } }
     }
  },
  {$count: "No_of_students_absent"}])
```