



Assignment 1: Video Recording

Your first assignment is to record yourself answering the questions below **in English**. The video should be up to **5 minutes long**.

Questions:

1. Present yourself shortly to us.
2. Why do you want to become part of MentorMate?
3. Tell us a bit more about your experience with the Java technology stack.

Here are some **tips** on how to record your video:

- Shoot yourself in landscape (horizontal) for higher quality. If audio pickup isn't great, use headphones.
- Shoot yourself in good lighting, natural light is your best friend. Do not shoot yourself in direct sunlight. Facing a window could be helpful.
- The shooting angle shouldn't be much below or above your head. Just imagine you're talking to someone.
- Don't talk too fast and try to pause between thoughts.
- Shorter is better than longer.

Upload the video to any Cloud (file transfer/sharing) platform - Youtube, Google Drive, WeTransfer, pCloud, Dropbox, One Drive, etc. Make sure that the link is shared externally, so we can open it. **Please insert the link in the relevant field in the application form.**

Assignment 2: Practical Task

Create a Java console application that generates monthly performance reports. The application should :

- Receive a command-line argument that is path to JSON data file (format provided below):

Data:

```
[
  {
    "name": "John Smith",
    "totalSales": 250,
    "salesPeriod": 10,
    "experienceMultiplier": 0.5
  },
  {
    "name": "David Prowless",
    "totalSales": 250,
    "salesPeriod": 10,
    "experienceMultiplier": 0.5
  }
]
```

- Receive a command-line argument that is path to JSON report definition file (format provided below):

Report definition:

```
{
  "topPerformersThreshold": 10,
  "useExperienceMultiplier": false,
  "periodLimit": 10
}
```

- Generate CSV (comma separated value) file containing the report results (example below);

Result

Name , Score

John Smith, 12.5

David Prowess, 12.5

The generated report should contain the following columns:

- Name - Name of the employee;
- Score - result of the evaluation;

Resulting report file should contain only employees that:

- have sales period that is equal or less than the `periodLimit` property;
- have score that is within the top X percent of the results, where X is defined by the `topPerformersThreshold` property of the report definition.

The score is calculated based on the following rules:

If `useExperienceMultiplier` is set to true:

$Score = totalSales / salesPeriod * experienceMultiplier$

If `useExperienceMultiplier` is set to false:

$Score = totalSales / salesPeriod$

Please upload the code for this project to GitHub and insert the link to your repository in the relevant field in the application form.