

# Exercise: Java Program to Read and Display CSV Data

## Objective:

Students will write a Java program that reads a CSV file and displays the information in the console. The program will include two features:

1. **Feature 1:** Display all records from the CSV file.
2. **Feature 2:** Display records filtered by category.

Students will use **GitHub Issues and Pull Requests (PRs)** to implement these features step by step.

# Instructions

## 1. Setup GitHub Repository

1. Create a GitHub repository named `CSVReaderJava`.
  - a. Clone the repository to your local machine using:  

```
git clone <repository-url>
```
2. Create a `.gitignore` file to exclude unnecessary files (e.g., `.class` files, `.idea/`, `target/` for Maven projects).
3. Create a `README.md` file to describe your project.
4. A CSV file will be provided. Ensure the program reads from this file.

## 2. Project Development Workflow (Using GitHub Issues & PRs)

### Step 1: Create GitHub Issues for Features

- Go to the **Issues** tab in your GitHub repository and create the following issues:
  1. **Issue #1: Read and display all records from the CSV file**
  2. **Issue #2: Allow users to filter records by category**

Each issue should include a brief description of the requirement and expected output.

### Step 2: Create a New Branch for Each Feature

- For each issue, create a new branch using the following command:
  - `git checkout -b feature-display-all`
  - `git checkout -b feature-filter-category`

### Step 3: Implement Each Feature

- Write Java code that fulfills the issue requirements.

### Step 4: Commit and Push Your Changes

Commit your code with a meaningful message:

```
git add .
git commit -m "Implemented Feature 1: Display all records"
```

Push the feature branch to GitHub:

```
git push origin feature-display-all
```

### Step 5: Open a Pull Request (PR)

1. Go to your GitHub repository and open a Pull Request (PR) for the branch.
2. Reference the related issue in the PR description (e.g., "Closes #1").
3. Request a peer or instructor to review the PR.

### Step 6: Merge the PR Once Approved

- Once the PR is approved, merge it into the `main` branch.
- Delete the branch after merging to keep the repository clean.

### Step 7: Repeat Steps for Feature 2

- Follow the same process for filtering by category.