**Ziele: Git-hub Aufgabe**

**1. Install Git**

* **Instructions:**
  + Visit the official [Git website](https://git-scm.com/) and download the latest version for your operating system.
  + Follow the installation instructions and configure Git with your name and email using the following commands:

**git config --global user.name "Your Name"**

**git config --global user.email "your.email@example.com"**

**2. Create a GitHub Account**

* **Instructions:**
  + Go to [GitHub](https://github.com/) and sign up for an account if you don’t already have one.
  + Set up your GitHub profile with a username, email, and profile picture.

**3. Create Your First Repository**

* **Instructions:**
  + After signing in to GitHub, click on "New Repository."
  + Name the repository (e.g., 24Group), add a description, and select "Public" so others can see it.
  + Initialize the repository with a README file.

**Deliverable:**

* + Share the URL of your repository.

**4. Clone the Repository Locally**

* **Instructions:**
  + Open Git Bash (or any terminal).
  + Clone your newly created repository using:

**git clone https://github.com/your-username/MyFirstRepo.git**

* + Navigate into the repository folder:

**cd MyFirstRepo**

**5. Make Changes and Commit**

* **Instructions:**
  + Create a new file called hello\_student.txt inside your local repository and add some content (e.g., “Hello, student!”).
  + Use the following commands to add and commit the changes:

**git add hello\_student.txt**

**git commit -m "Added hello\_student.txt"**

**6. Push Changes to GitHub**

* **Instructions:**
  + Push your committed changes to GitHub using:

**git push origin main**

* + Check your GitHub repository to confirm that hello\_student.txt has been uploaded.

**7. Create and Switch to a New Branch**

* **Instructions:**
  + Create a new branch named feature-branch:

**git checkout -b feature-branch**

* + Add a new file called feature.txt with some text.
  + Add, commit, and push the changes:

**git add feature.txt**

**git commit -m "Added feature.txt"**

**git push origin feature-branch**

**8. Create a Pull Request (PR)**

* **Instructions:**
  + Go to your GitHub repository and you will see an option to create a Pull Request for the feature-branch.
  + Create the PR with a short description of the changes.

**Deliverable:**

* + Submit the link to the pull request for review.

**9. Merge Pull Request**

* **Instructions:**
  + Once the PR is created, merge it into the main branch on GitHub.
  + After merging, delete the feature-branch from GitHub if desired.

**10. Collaborate with Another Student**

* **Instructions:**
  + Pair up with another student. Share your repository with them by adding them as a collaborator.
  + Each student should create a branch, make changes, and create a pull request.
  + Review and approve each other's pull requests, then merge them into the main branch.

**Zeitvorgaben**

Fertigstellung bis Mittwoch, 23.10.2024 EOD (10:00)