README.md 4/22/2023

This is a pdf version of https://git.tu-berlin.de/lis-public/ai-student-workspace/-/blob/main/00/README.md

Oth Assignment: Test your setup

This assignment only contains a simple test task. You should use it to set up your workflow. Make sure everything works before the graded assignments will start next week. The current assignment will not be graded.

Ex. 0.1: Install git

git is a software used in virtually every software project to track changes and versions of code across large collaborations. We will use it in this course to provide coding assignments to you, and to get the solutions back from you.

To install git, please follow the instructions here: https://git-scm.com/book/en/v2/Getting-Started-Installing-Git.

Ex. 0.2: Fork this repo and clone it from your own git repository

- 1. Click the 'fork' button on top right of the gitlab webpage of the course repo at https://git.tu-berlin.de/lis-public/ai-student-workspace/ to create your own fork on this gitlab.
- 2. Open a bash shell and navigate to a folder of your choice.
- 3. Clone the repo using git clone YOURFORK. Here, YOURFORK is the URL of your fork of this repo. For example, if you forked directly on this gitlab, it will look like this: git@git.tu-berlin.de:YOUR_USER_NAME/PATH/TO/REPO.git

```
git clone YOURFORK
```

4. cd into the repo folder that appeared: cd ai-student-workspace

Ex. 0.3 Give the course tutors reading access to your repo

If you are using the TU gitlab, please add the following accounts:

- ischubert
- driessdy
- levit
- vhartmann

The role should be at least Reporter for these accounts.

Ex. 0.4 Tell us where your repo is located

Fill out the questionnaire on ISIS. The questionnaire will ask you for the following:

- 1. Your student ID number (Matrikelnummer)
- 2. Your E-Mail address

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3. The SSH-URL of your repo (that's the one that starts with git@...), i.e. YOURFORK.

You can form groups of up to 3 students. If you are in the same group, you can use the same URL. However, each of you should still fill out the questionnaire individually. Furthermore, please ensure that you are able to present your group's solution during the tutorials.

Ex. 0.5: Open assignment

Throughout this course, each assignment will be given as a subfolder of ai-student-workspace. For example, the assignment subfolder for the present assignment is 00. Inside each assignment subfolder, you will find

- 1. Files containing code that you **should not edit**
- 2. One README. md that explains the task
- 3. One single file that you should edit according to the task. For the present assignment, this file is called solution_00.py. For later assignments, these files will be called solution_01.py, solution_02.py, and so on. This is the only file that should be edited.

Ex. 0.6: Complete assignment

Inside solution_00.py, there will be functions / code that you should change so that they generate the desired output.

As an example, please modify the function body of the function $y = is_even_and_positive(x)$ so that

- y is True if x is an even and positive integer
- y is False in all other cases

Only modify the function body and nothing else! Do not change the function name!

Of course there are many ways to solve this, but one would be to use the functions provided in module_1.py like this:

```
from module_1 import is_positive, is_even
```

You can test your function by changing directory to the task folder 00, and then simply typing python3 -m pytest. If you haven't yet, you will need to install pytest first: sudo apt install python3-pytest

This will run the tests defined in the file <code>00/tests/test_public.py</code>. When you hand in your solution, we will test it with a very similar <code>test_private.py</code>. This file looks very similar, we only change the input-output combinations.

Ex. 0.7: Stage, commit, and push your solution

Once you are finished, stage your changes using

```
cd ai-student-workspace/00
git add solution_00.py
```

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Then commit your changes using

```
git commit
```

This will save your changes to solution_00.py. You will be asked to provide a commit message.

Push your new commit to your forked repository using

```
git push
```

After the assignment deadline, we will automatically test whether is even returns correct values.

Ex. 0.8: Merge your fork of this repo after the next assignment has been published

In order to keep your own fork of this repo up-to-date with updates to the next assignments, you need to merge.

For this, first add the URL of this repository as upstream to your fork (you only need to do this once):

```
git remote add upstream git@git.tu-berlin.de:lis-public/ai-student-
workspace.git
```

By typing git remote -v, you can verify that there are 2 remote urls added to your fork now: The url for "origin" contains the branches of your fork, "upstream" contains the branches of this repo.

Every time you want to merge your repo with new updates on the upstream, run

```
git fetch upstream
git merge upstream/main origin/main
```

fetch checks for new commits found at the upstream url, and merge merges the upstream branch (called upstream/main) with your branch (called origin/main).

If you only committed changes in solution_00.py, you will be able to merge automatically (without conflicts).