

## Assignment-1:

**Points:** 40

**Due Date:** 02/10, 23:59

**Description:** You have to create a conda environment and install two packages:

- 1) Numpy
- 2) Matplotlib

Find the exact conda command required to install these two packages. After installation, export the environment to a YAML file. The name of the file should be "requirements.yaml". The name of the environment should be "cs\_assign1"

Create a GitHub repository (it must be public). Upload a Python file that uses decorators to the main branch. Also, add a README.md file to the main branch. The README.md file should have the following structure:

A heading (use single #):

.....Some content....

Another heading (use ##):

....Some content....

And a code block. In markdown file (md) code block is written within

<code> YOUR\_COMMAND </code>

Another heading (use ###):

....Some content....

Show an image. To show an image the command is

![Alt text](image\_url)

Alt text is some text description about the image and image\_url is the relative path to the image.

The heading, content, and code can be any meaningful text. Since this is an exercise, please choose something appropriate. For the image, upload a picture of your pet (if you have one). If you do not have a pet, please upload an appropriate image of an animal. (As a side note, I'm a dog person, and I'm not sure what your TAs prefer.)

Once you've pushed the code and README file to the main branch, create a new branch called 'branch\_1'. Within 'branch\_1', upload an additional Python file and make changes to the README file. In the README file, modify only the headings.

So, in your main branch, there will be three files (a Python program, a README file, and a YAML file). You will also have the image. In branch "branch\_1," you will have four files (two program files, the README file, and the YAML file), in addition to the image file.

**RUBRIC:**

- 1) Able to follow the README format for both the branches - 20 points
- 2) Able to create a new branch and push files as described above - 20 points

If you do not follow the naming conventions described above, 20 points will be deducted. Create a public repository and paste the link into a doc/docx file. Convert this file to a PDF and upload it to Moodle. If the file format is not PDF, 15 points will be deducted. If the link is broken or invalid, 20 points will be deducted. I prefer not to deduct points for these reasons, so I request you to follow the guidelines. If you have any questions, please ask me during or after class so that everyone can benefit from the discussion.