# CPSC 470/570: Artificial Intelligence Assignment 0 (warmup, 2 points)

Introduction to Python3

Due Wednesday, January 23, 11:59:59 PM

#### I. Introduction

This assignment will introduce you to Python3 and give you a background needed for the class and further assignments.

#### II. Work environment

We encourage you to work on a Zoo machine as all the environment requirements (e.g. Python3) are set up for you. You can work directly on a Zoo computer (on the 3rd floor of AKW and in Hillhouse 17). For more advanced users, you are welcome to work on your local machine or SHH into the Zoo. For more information about the cluster and how to SSH into the Zoo, visit <a href="http://zoo.cs.yale.edu/newzoo/">http://zoo.cs.yale.edu/newzoo/</a>.

Go to Canvas and download the folder PS0. (There are three dots on the right when you move your mouse on the folder. Click on it and click on download, and it will download the entire folder.) You should see the following files:

- · animals.py
- · animals.txt
- · assignment0.py
- sample\_answers\_solution
- sample.txt

# III. Work with Python3

For this assignment, you have to complete 9 TODO 's from assignment0.py. We expect you to look up the documentation of Python3 to finish this assignment. The code should be relatively simple.

- TODO 1, 2, 3, 4, 7 require you to insert 1 3 lines of code.
- TODO 5, 6, 8, 9 require you to comment / uncomment one line.

Please read the file for specific instructions for each TODO.

The remaining files are:

- animals.py: defines the Animal class, which is used in assignment0.py.
- animals.txt: defines the input of the private test.
- sample.txt : defines the input of the public test.
- sample\_answers\_solution.txt : defines the output of the public test.

#### 1. Test your implementation with public test

Finish TODO 1, 2, 3, 4, 7 and leave the remaining TODO 's untouched.

To execute assignment@.py , just run the following command in the folder where you store the file:

```
python3 assignment0.py
```

You should see a new file, <code>sample\_answers.txt</code>, generated. If this file is identical to <code>sample\_answers\_solution.txt</code>, and all the output on your terminal is the same as the ones indicated in the file, congratulations, you pass the public test! To test that the two files are identical, execute the following command:

```
diff sample_answers.txt sample_answers_solution.txt
```

#### 2. Generate the final solution for private test

Finish TODO 5, 6, 8, 9. Then, re-execute the script. You should see a new file, answers.txt, generated. This file will be compared with our solution as a private test.

# IV. Submit your assignment

- · Make sure your assignment0 folder has the following files:
  - assignment0.py with your implementation
  - o sample\_answers.txt generated
  - o answers.txt generated
  - animals.py without modification
  - o animals.txt without modification
  - samples.txt without modification
  - sample\_answers\_solution.txt without modification
- Zip your assignment0 folder and name it [netID]-assignment0.zip.
- Upload the zip file to Canvas.

### V. Grading criteria

This assignment is worth two points.

Public test: 1 pointPrivate test: 1 point

## VI. Late policy

We do not accept work pass the deadline.