

Fall 2021: CSEE5590/490 – Special Topics

Python and Deep Learning - Assignment-1

Lesson Overview:

This lesson will focus on installation and making one familiar with python programming concepts.

Use Case Description:

1. Hello World
2. Add two numbers
3. Basic operations
4. Basic for loop

Programming elements:

Python Features, Applications, Installation, Python version, Data types, Operators, Conditional Statements

Lecture-1:

Note: Code quality (in terms of time and space complexity) is highly valued

1. Write a python program for the following:

- Input the string “Python” as a list of characters from console, delete at least 2 characters, reverse the resultant string and print it.

Sample input:

- python

•Sample output:

- ntyp

- Take two numbers from user and perform at least 4 arithmetic operations on them.

2. Write a program that accepts a sentence and replace each occurrence of ‘python’ with ‘pythons’ without using regex.

- Sample input:*

- I love playing with python

- Sample output:*

- I love playing with pythons

3. Use the if statement conditions to write a program to print the letter grade based on an input class score. Use the grading scheme we are using in this class.

** Follow the IPC rubric guidelines.

Submission Guidelines:

1. Once finished present your work to TA during class time.
2. Once evaluated submit your source code and documentation to GitHub and represent the work in a ReadMe file properly (short summary for the ICP).

After class submission:

1. Complete your work and submit to your repo before the deadline.
2. Record a short video (1~3) minute, explaining the technical part and method used.
3. Add video link to ReadMe file.

Note: *Cheating, plagiarism, disruptive behavior and other forms of unacceptable conduct are subject to strong sanctions in accordance with university policy. See detailed description of university policy at the following URL:* <https://catalog.umkc.edu/special-notice/academic-honesty/>