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Gihub link: <https://github.com/SiddarthPaladi/Neural_Networks_1>

Video Link: <https://docs.google.com/document/d/14-5esDm7x1V-oB-YiqeB-dMr1qikhJju/edit?usp=sharing&ouid=114849888985097856454&rtpof=true&sd=true>

Fall 2023: CS5720

**Neural Networks & Deep Learning - ICP-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

P= list(input('enter a string'))

if len(P)>2:

  del P[-2:]

print(P)

x=''.join(P[::-1])

print(x)

enter a stringpython

['p', 'y', 't', 'h']

htyp

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

a = int(input("Enter the first number: "))

b = int(input("Enter the second number: "))

print("Addition:", a + b)

print("Subtraction:", a - b)

print("Multiplication:", a \* b)

print("Division:", a / b)

Enter the first number: 56

Enter the second number: 45

Addition: 101

Subtraction: 11

Multiplication: 2520

Division: 1.2444444444444445

1. Write a program that accepts a sentence and replace each occurrence of ‘python’ with ‘pythons’.

* *Sample input:*

•I love playing with python

* *Sample output:*

•I love playing with pythons

w = input('enter a string')

s=w.replace('python','pythons')

print('after replacement : ',s)

enter a stringi love python

after replacement : i love pythons

1. 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.

score = int(input("Enter class score"))

if(score>=90):

  print("A")

elif(score>=80 & score<90):

  print("B")

elif(score>=70 & score<80):

  print("C")

elif(score>=60 & score<70):

  print("D")

else:

  print("F")

Enter class score78 B

\*\* Follow the IPC rubric guidelines.

# Submission Guidelines:

1. Once finished present your work during class time.
2. Once completed 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.*