Spring 2024 : CS5720 Neural Networks and Deep Learning – ICP – 1
Assignment -1
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Github Link: https://github.com/vishnutejaayyangar/ICP-1.git
Video Link:
https://drive.google.com/file/d/1Usx2zRe0Qw55lqkw15hOTdHIEsa9jPYe/view?usp=drive_link

- Write a python program for the following.

Input the string "**Python**" as a list of characters from console, delete atleast 2 characters, reverse the resultant string and print it.

```
# Write a python program for the following:
#Input the string "Python" as a list of characters from console, delete at least 2 characters, reversethe resultant string and print it.

x = input("Enter the string :")
y =list(x.strip())
print(type(y))
print(y)
y.pop(-3)
y.pop(-3)
print(y)
y.reverse()
x = ''.join(y)
print(x)
```

```
Enter the string :python
<class 'list'>
['p', 'y', 't', 'h', 'o', 'n']
['p', 'y', 'o', 'n']
noyp
```

- Take two numbers from user and perform at least 4 arithmetic operations onthem

```
[14] #Take two numbers from user and perform at least 4 arithmetic operations on them.

a = int(input("Enter the first number: ")) # user input1 and typecasting the the entered string into integer
b = int(input("Enter the second number: ")) # user input2

#Printing the result for 4 arithmetic operations
print("Division: ",a/b) # simple Division
print("Floor Division: ",a// b) # floor Division
print("Modulus: ", a % b) # Modulus
print("Exponentiation: ",a ** b) # Exponentiation
```

```
Enter the first number: 6
Enter the second number: 2
Division:  3.0
Floor Division:  3
Modulus:  0
Exponentiation:  36
```

- Write a program that accepts a sentence and replace each occurrence of

'python' with **'pythons'**.

```
[15] #Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons'.
     # declaring a string variable
     s = input("Enter the sentence :")

     # replacing string python with pythons
     s = s.replace('python', 'pythons')
     print("Updated string is : ")
     print(s)
```

```
Enter the sentence :i like working with python
Updated string is :
i like working with pythons
```

- 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 usingin this class.

```
[17] #Use the if statement conditions to write a program to print the letter grade based on an input class score

     score = int(input("Enter the score of the person: "))
     if score >= 90:
         print("A grade")
     elif score >=80:
         print("B grade")
     elif score >=70:
         print("C grade")
     elif score >= 60:
         print("D grade")
     else:
         print("Fail grade")
```

```
Enter the score of the person: 78
C grade
```