

# Spring 2024: CS5720 Neural Networks & Deep Learning - ICP-1

## Assignment-1

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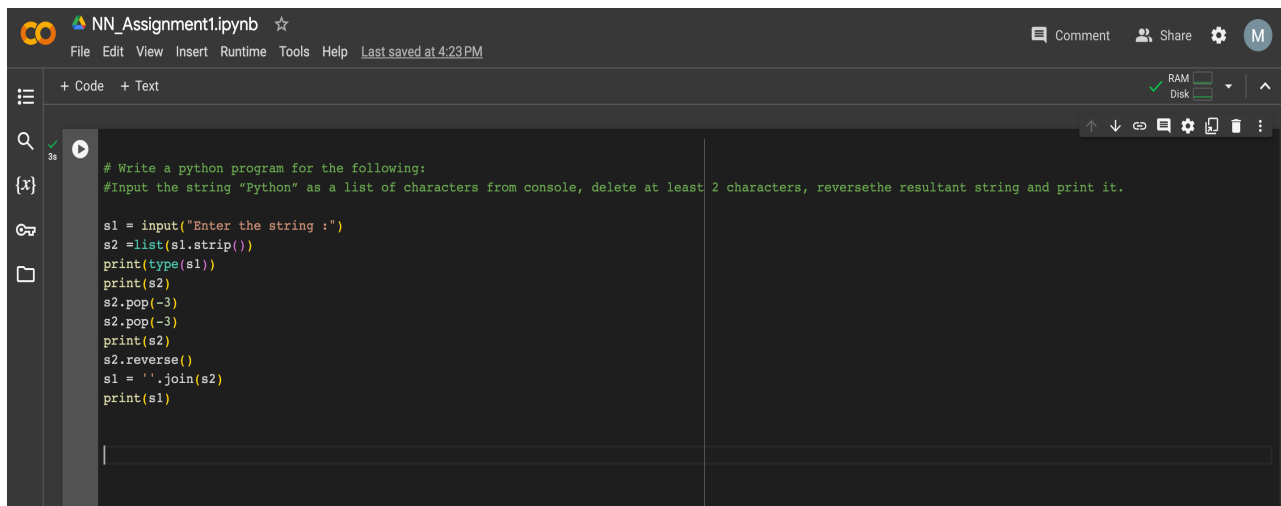
Video Link:

[https://drive.google.com/file/d/1aateWskIb6XnrMOyWEuT5EJs0XwXG8j4/view?usp=drive\\_link](https://drive.google.com/file/d/1aateWskIb6XnrMOyWEuT5EJs0XwXG8j4/view?usp=drive_link)

GitHub Link: [https://github.com/mahendrasrirambetha/NN\\_Assignment1](https://github.com/mahendrasrirambetha/NN_Assignment1)

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.



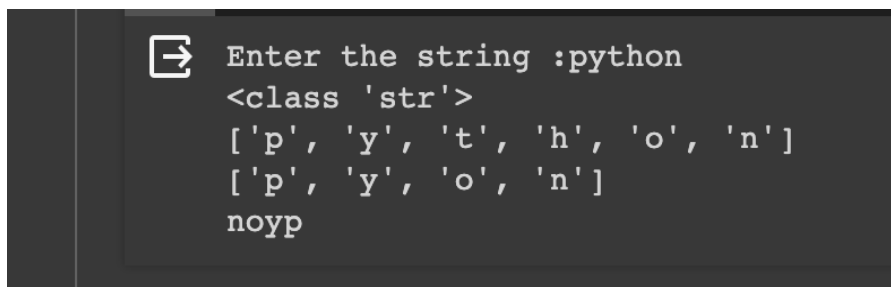
```

# 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.

s1 = input("Enter the string :")
s2 = list(s1.strip())
print(type(s1))
print(s2)
s2.pop(-3)
s2.pop(-3)
print(s2)
s2.reverse()
s1 = ''.join(s2)
print(s1)

```

OUTPUT:



```

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

```

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

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

num1 = int(input("Enter the first number: ")) # user input1
num2 = int(input("Enter the second number: ")) # user input2

#Printing the result for 4 arithmetic operations
print("Addition: ", num1+num2) # simple Addition
print("Subtraction: ", num1 - num2) # Subtraction
print("Division: ", num1/num2) # simple Division
print("Floor Division: ", num1// num2) # floor Division
```

OUTPUT:

```
➞ Enter the first number: 10
Enter the second number: 2
Addition: 12
Division: 5.0
Floor Division: 5
Subtraction: 8
```

2. Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons'.

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

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

OUTPUT:

```
➞ Enter the sentence :my name is python
Updated string is :
my name is 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 the class.

```
#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

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

OUTPUT:

```
➞ Enter the marks of the person: 87
B grade
```