

**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

```
In [ ]: Spring 2023: CS5720
        Neural Networks & Deep Learning - ICP-1

In [ ]: #Question1(a)

In [14]: # Question: Input the string "Python" as a list of characters from console, delete at least 2 characters, reverse the string, and print it.
#String entered by the user
string = input('Enter the string:')
#String slicing and concatenating the sliced string to get the desired string after deleting some characters
sub = string[0:3] + string[5:]
#String reversing and printing the reversed string
print('String after deleting some characters and reversing the String is ', sub[::-1], '')

Enter the string:python
String after deleting some characters and reversing the String is " ntyp "
```

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

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In [ ]: #Question1(b)

In [15]: #Take two numbers from user and perform at least 4 arithmetic operations on them.
#two numbers entered by the user
a = int(input("Enter First Number: "));
b = int(input("Enter Second Number: "));

#Addition
print(a+b);
#Subtraction
print(a-b);
#Multiplication
print(a*b);
#Division
print(a/b);

Enter First Number: 8
Enter Second Number: 4
12
4
32
2.0
```

2. 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

## Neural Networks & Deep Learning - ICP-1

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In [ ]: #Question 2

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In [16]: #3. Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons' without using regex
User entering the sentence
nString = input("input a sentence:")
replacing the string using replace function
utString = nString.replace('python', 'pythons')
output
rint(outString)

input a sentence:i love python
i love 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.

In [ ]: #Question 3

```
In [17]: #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.
#Getting the score from the user
score = int(input("Enter your score:"));
#printing the grade depending on the user input
if score >= 90 and score <=100:
    print("Your Grade is A");
elif score >= 80 and score <=89:
    print("Your Grade is B");
elif score >= 70 and score <=79:
    print("Your Grade is C");
elif score >= 60 and score <=69:
    print("Your Grade is D");
else:
    print("Your Grade is F");

Enter your score:80
Your Grade is B
```

**Github Link :**

<https://github.com/murthykolla/Neural-Networks-Deep-Learning---ICP-1.git>

**Video Link :**

[https://drive.google.com/file/d/1cGOJk3embgSKZnHai5wCXo9fbswE\\_lqS/view?usp=share\\_link](https://drive.google.com/file/d/1cGOJk3embgSKZnHai5wCXo9fbswE_lqS/view?usp=share_link)