

Summer 2024: CS5720 NNDL - ICP-1

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GitHub Link: <https://github.com/Lasya-vanga/NNDL-ICP1>

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:

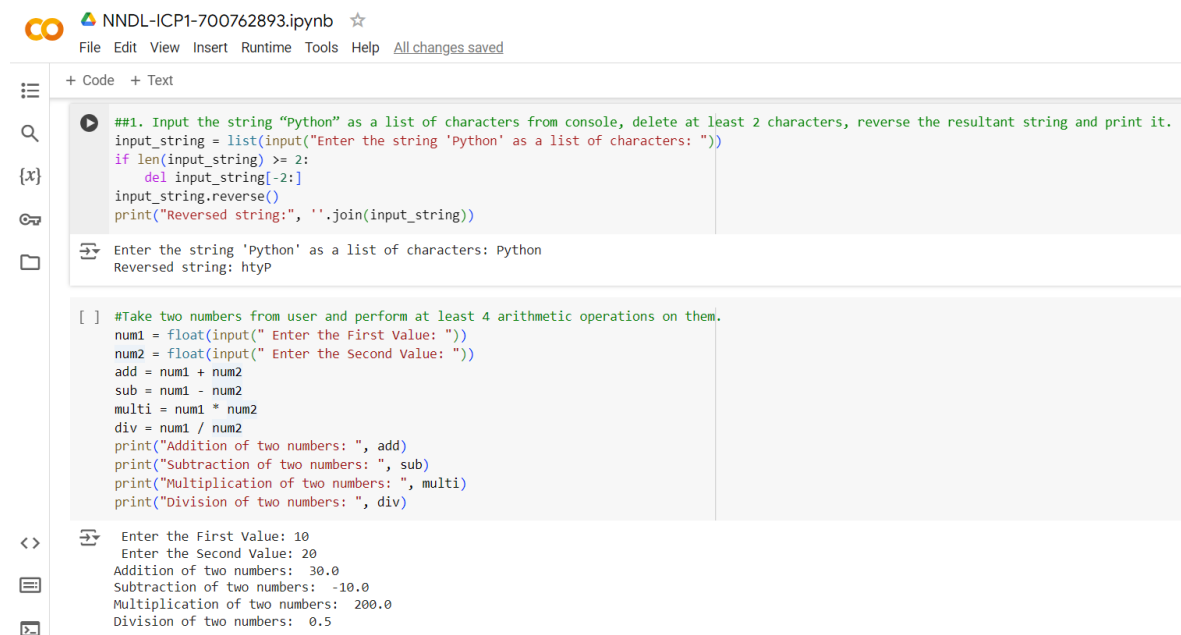
python

Sample output:

ntyp

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

Solution:



```
##1. Input the string "Python" as a list of characters from console, delete at least 2 characters, reverse the resultant string and print it.
input_string = list(input("Enter the string 'Python' as a list of characters: "))
if len(input_string) >= 2:
    del input_string[-2:]
input_string.reverse()
print("Reversed string:", ''.join(input_string))

Enter the string 'Python' as a list of characters: Python
Reversed string: htyp

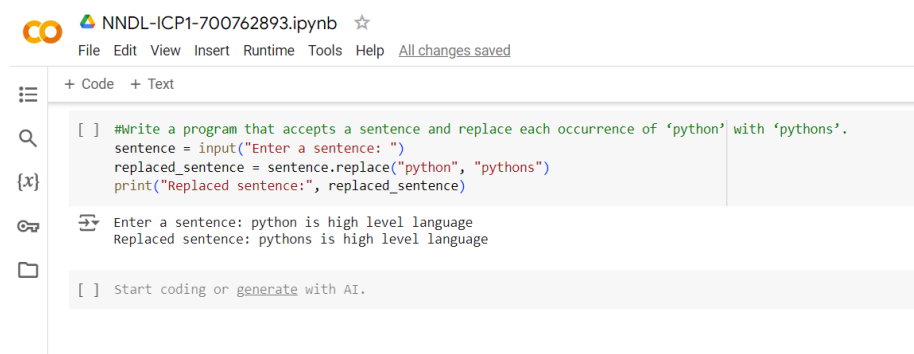
[ ] #Take two numbers from user and perform at least 4 arithmetic operations on them.
num1 = float(input(" Enter the First Value: "))
num2 = float(input(" Enter the Second Value: "))
add = num1 + num2
sub = num1 - num2
multi = num1 * num2
div = num1 / num2
print("Addition of two numbers: ", add)
print("Subtraction of two numbers: ", sub)
print("Multiplication of two numbers: ", multi)
print("Division of two numbers: ", div)

Enter the First Value: 10
Enter the Second Value: 20
Addition of two numbers: 30.0
Subtraction of two numbers: -10.0
Multiplication of two numbers: 200.0
Division of two numbers: 0.5
```

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

Solution:

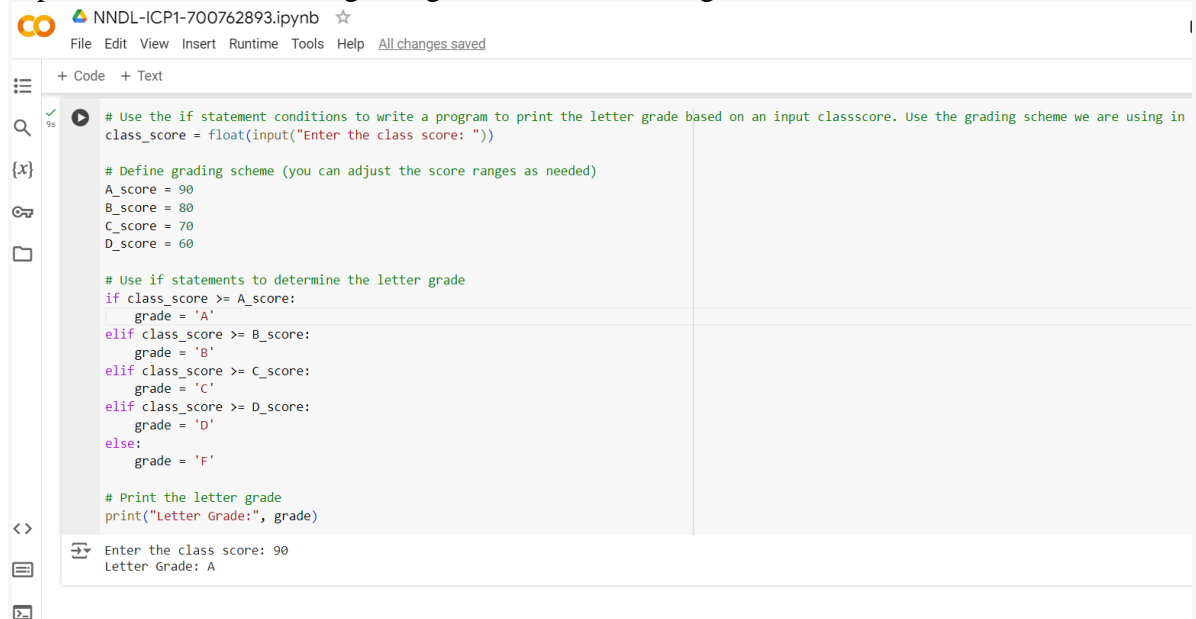


```
#Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons'.
sentence = input("Enter a sentence: ")
replaced_sentence = sentence.replace("python", "pythons")
print("Replaced sentence:", replaced_sentence)

Enter a sentence: python is high level language
Replaced sentence: pythons is high level language

[ ] Start coding or generate with AI.
```

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.



The image shows a Jupyter Notebook interface with a single code cell. The code is a Python program that takes a class score as input and prints the corresponding letter grade based on a predefined grading scheme. The grading scheme is as follows:

Letter Grade	Score Range
A	90 - 100
B	80 - 89
C	70 - 79
D	60 - 69
F	Below 60

The code uses a series of if-elif-else statements to determine the letter grade. The input is taken from the user via the `input()` function, and the output is printed using the `print()` function.

```
# Use the if statement conditions to write a program to print the letter grade based on an input classscore. Use the grading scheme we are using in
class_score = float(input("Enter the class score: "))

# Define grading scheme (you can adjust the score ranges as needed)
A_score = 90
B_score = 80
C_score = 70
D_score = 60

# Use if statements to determine the letter grade
if class_score >= A_score:
    grade = 'A'
elif class_score >= B_score:
    grade = 'B'
elif class_score >= C_score:
    grade = 'C'
elif class_score >= D_score:
    grade = 'D'
else:
    grade = 'F'

# Print the letter grade
print("Letter Grade:", grade)
```

The output of the program is shown in the console below the code cell:

```
Enter the class score: 90
Letter Grade: A
```