

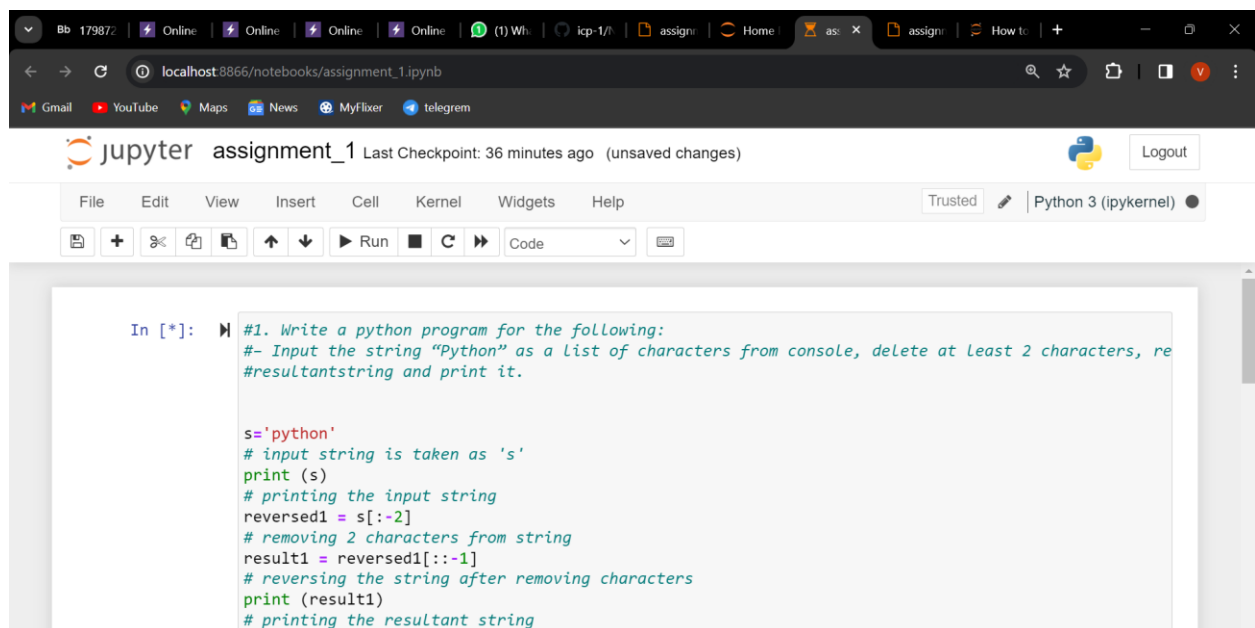
Spring 2024: CS5720 Neural Networks & Deep Learning - ICP-1  
Assignment-1  
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Github link:

Video link:

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.

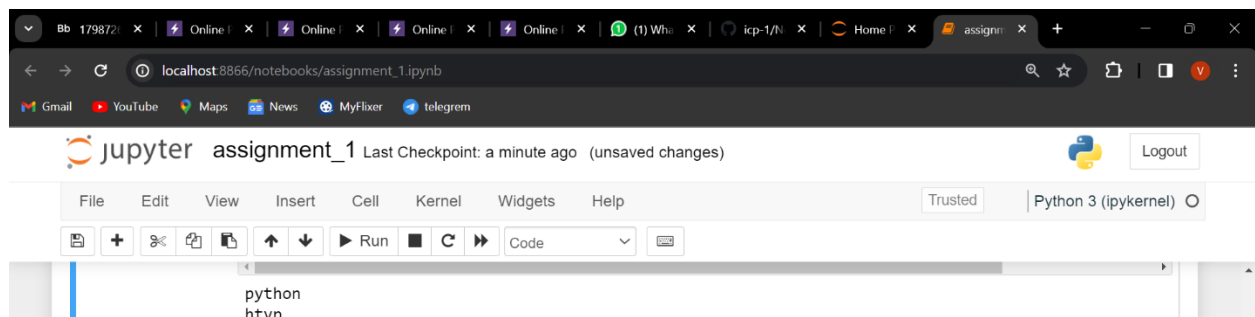


The screenshot shows a Jupyter Notebook interface with a code cell containing the following Python code:

```
In [*]: #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.

        s='python'
        # input string is taken as 's'
        print(s)
        # printing the input string
        reversed1 = s[::-2]
        # removing 2 characters from string
        result1 = reversed1[::-1]
        # reversing the string after removing characters
        print(result1)
        # printing the resultant string
```

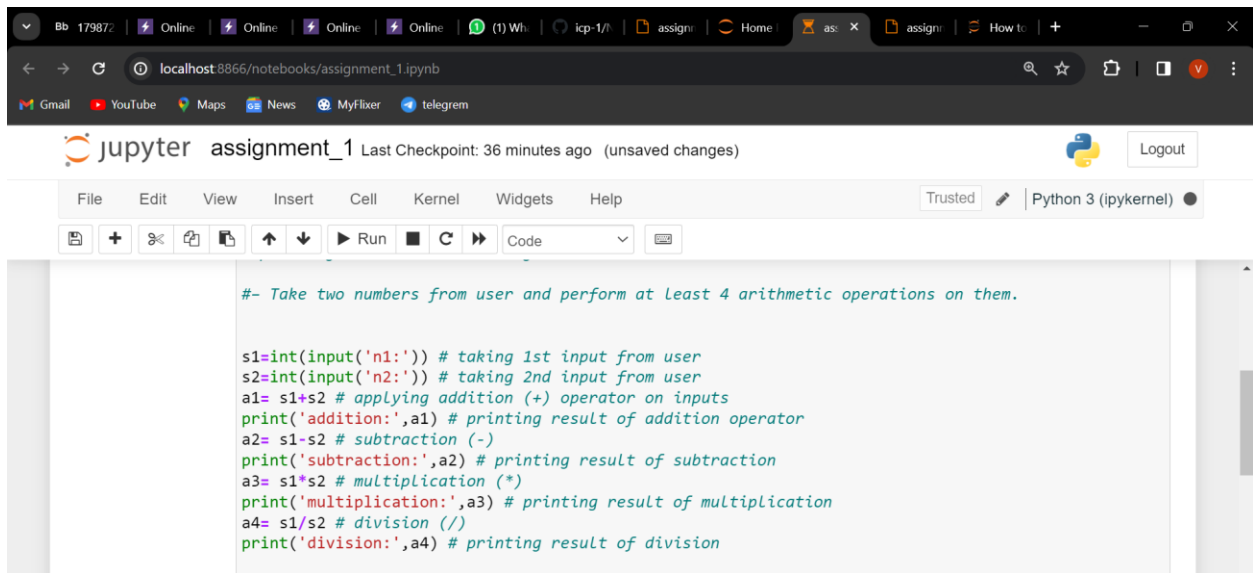
Output:



The screenshot shows the output of the Jupyter Notebook code cell, displaying the string 'python' on the first line and 'htyp' on the second line.

```
python
htyp
```

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



The screenshot shows a Jupyter Notebook titled 'assignment\_1' with a 'Last Checkpoint: 36 minutes ago (unsaved changes)' status. The notebook is running on 'Python 3 (ipykernel)'. The code in the cell is as follows:

```
#- Take two numbers from user and perform at Least 4 arithmetic operations on them.

s1=int(input('n1:')) # taking 1st input from user
s2=int(input('n2:')) # taking 2nd input from user
a1= s1+s2 # applying addition (+) operator on inputs
print('addition:',a1) # printing result of addition operator
a2= s1-s2 # subtraction (-)
print('subtraction:',a2) # printing result of subtraction
a3= s1*s2 # multiplication (*)
print('multiplication:',a3) # printing result of multiplication
a4= s1/s2 # division (/)
print('division:',a4) # printing result of division
```

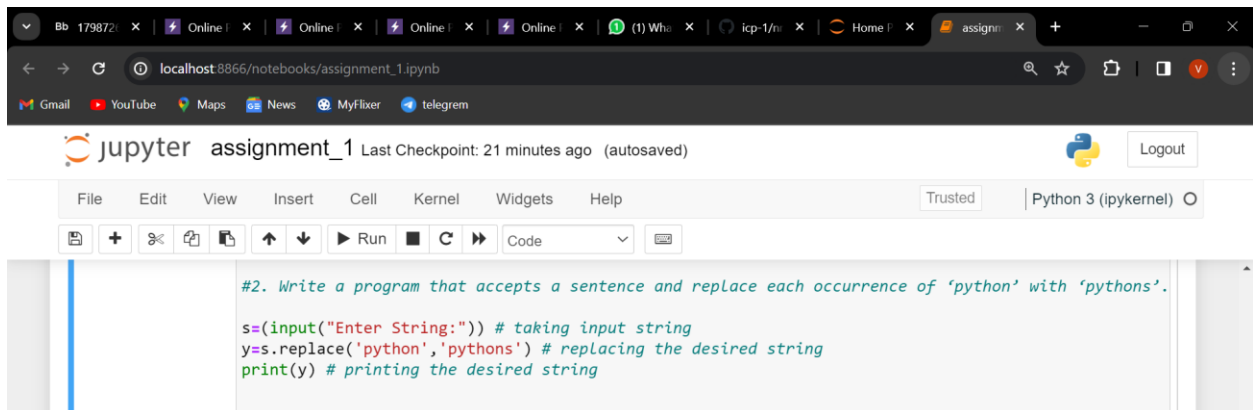
Output:



The output of the program is displayed in the Jupyter Notebook interface:

```
n1:8
n2:4
addition: 12
subtraction: 4
multiplication: 32
division: 2.0
```

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



The screenshot shows a Jupyter Notebook titled 'assignment\_1' with a 'Last Checkpoint: 21 minutes ago (autosaved)' status. The notebook is running on 'Python 3 (ipykernel)'. The code in the cell is as follows:

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

s=input("Enter String:") # taking input string
y=s.replace('python','pythons') # replacing the desired string
print(y) # printing the desired string
```

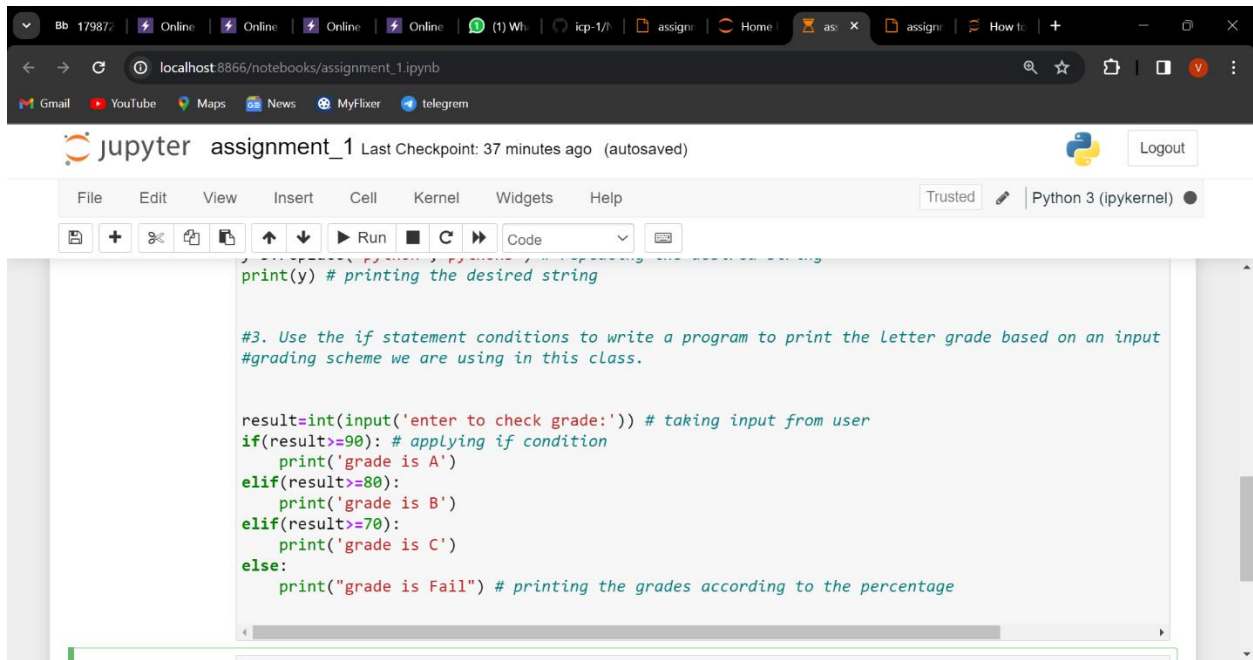
Output:



The output of the program is displayed in the Jupyter Notebook interface:

```
Enter String:i love playing with python
i love playing with 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.



The screenshot shows a Jupyter Notebook window titled "assignment\_1" with a last checkpoint of 37 minutes ago. The notebook is running on Python 3 (ipykernel). The code in the cell is as follows:

```
print(y) # printing the desired string

#3. Use the if statement conditions to write a program to print the letter grade based on an input
#grading scheme we are using in this class.

result=int(input('enter to check grade:')) # taking input from user
if(result>=90): # applying if condition
    print('grade is A')
elif(result>=80):
    print('grade is B')
elif(result>=70):
    print('grade is C')
else:
    print("grade is Fail") # printing the grades according to the percentage
```

Output:



The output of the program is shown in the Jupyter Notebook interface:

```
enter to check grade:89
grade is B
```