

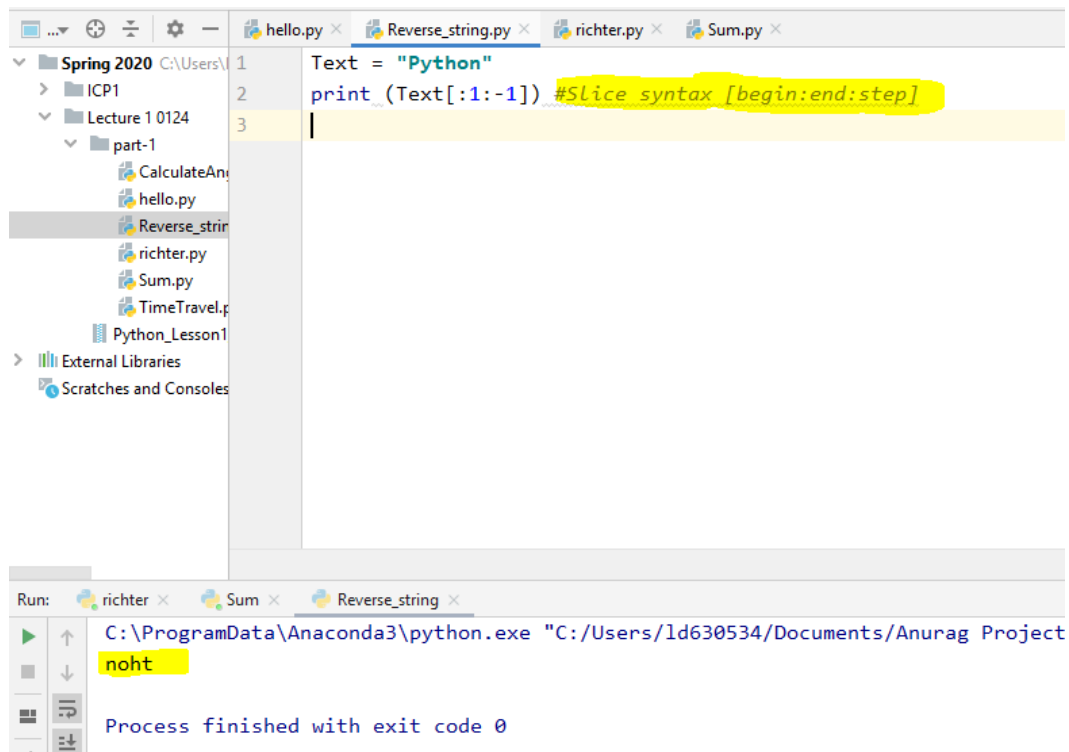
1. State differences between Python 2 and Python 3 version

Parameters	Python 2	Python 3
Integers	Division of integers always returns integer (7/2) = 3	Division of integers can result in float (7/2) = 3.5
Print Function	Print "Hello world!" (parentheses no required)	print("Hello world!") (parentheses compulsory)
Raw_input	raw_input() read as string	Raw_input() not applicable
Unicode Format	Requires 'u' to define Unicode string	Default storing of string is Unicode
Range Function	range(x) and xrange()	Only xrange()
Exception Handling	Exception handling involves the exception arguments to be enclosed in notations.	Exception handling involves the exception arguments to be enclosed within parenthesis.
Current State	Legacy programming	Future language
Library	Many libraries are not forward compatible	Backward compatible and developers are creating libraries for Python 3 currently

Video Link: <https://www.loom.com/share/03934b3aa39f4dec9488faa79269e2a6>

2. Write a python program for the following:

- a) Input the string "Python" as a list of characters from console, delete at least 2 characters, reverse the resultant string and print it.



```
1 Text = "Python"
2 print(Text[:1:-1]) #Slice syntax [begin:end:step]
3
```

Run: richter x Sum x Reverse_string x

C:\ProgramData\Anaconda3\python.exe "C:/Users/ld630534/Documents/Anurag Project
noht

Process finished with exit code 0

b) Take two numbers from user and perform arithmetic operations on them?

[illegible]

3. Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons' without using regex?

The screenshot shows an IDE with a file explorer on the left and a code editor on the right. The file explorer shows a project structure for 'Spring 2020' with a folder 'Lecture 1 0124' containing a file 'part-1'. The code editor displays a Python script in 'Replacing_String.py' with two lines of code: `text = "Hello this is a python class"` and `print(text.replace('python', 'python with deep learning'))`. The output of the script is shown in the 'Run' console at the bottom, displaying the command executed and the resulting output: 'Hello this is a python with deep learning class'.

File Explorer Structure:

- Spring 2020
 - ICP1
 - Lecture 1 0124
 - part-1
 - Arithmetic_Operations.py
 - Calculate_Average.py
 - hello.py
 - Replacing_String.py
 - Reverse_string.py
 - richter.py
 - Sum.py
 - TimeTravel.py
 - Python_Lesson1
- External Libraries
- Scratches and Consoles

Code Editor Content (Replacing_String.py):

```
1 text = "Hello this is a python class"
2 print(text.replace('python', 'python with deep learning')) #Replacing String
```

Run Console Output:

```
Run: C:\ProgramData\Anaconda3\python.exe "C:/Users/ld630534/Documents/Anurag Projects/Spring 2020/Lecture 1 0124/part-1/Replacing_String.py"
Hello this is a python with deep learning class

Process finished with exit code 0
```