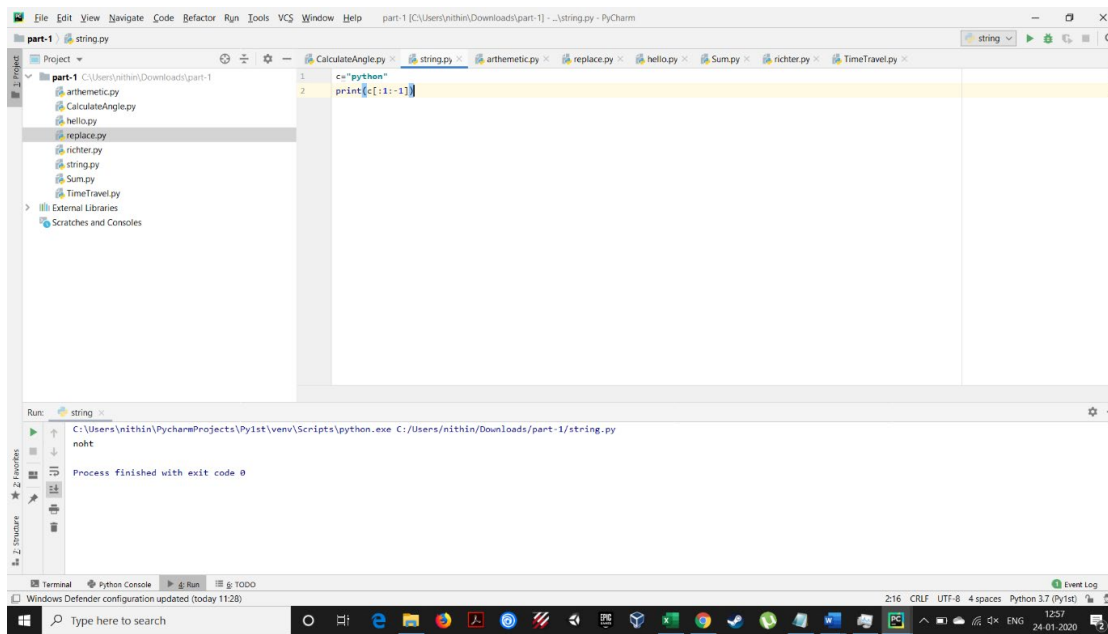


ICP 1

DIFFERENCE BETWEEN PYTHON 2 AND PYTHON 3

Comparison	Python 3	Python 2
Release Date	2008	2000
Function print	print ("hello")	print "hello"
Division of Integers	Whenever two integers are divided, you get a float value	When two integers are divided, you always provide integer value.
Unicode	In Python 3, default storing of strings is Unicode.	To store Unicode string value, you require to define them with "u".
Syntax	The syntax is simpler and easily understandable.	The syntax of Python 2 was comparatively difficult to understand.
Rules of ordering Comparisons	In this version, Rules of ordering comparisons have been simplified.	Rules of ordering comparison are very complex.
Iteration	The new Range() function introduced to perform iterations.	In Python 2, the xrange() is used for iterations.
Exceptions	It should be enclosed in parenthesis.	It should be enclosed in notations.
Leak of variables	The value of variables never changes.	The value of the global variable will change while using it inside for-loop.
Backward compatibility	Not difficult to port python 2 to python 3 but it is never reliable.	Python version 3 is not backwardly compatible with Python 2.
Library	Many recent developers are creating libraries which you can only use with Python 3.	Many older libraries created for Python 2 is not forward-compatible.

SLICING AND REVERSING A STRING



```
File Edit View Navigate Code Refactor Run Tools VCS Window Help part-1 [C:\Users\nithin\Downloads\part-1] - string.py - PyCharm
```

part-1 string.py

```
1 c="python"
2 print(c[::-1])
```

Run: string

C:\Users\nithin\PycharmProjects\Py1st\venv\Scripts\python.exe C:\Users\nithin\Downloads\part-1\string.py

noht

Process finished with exit code 0

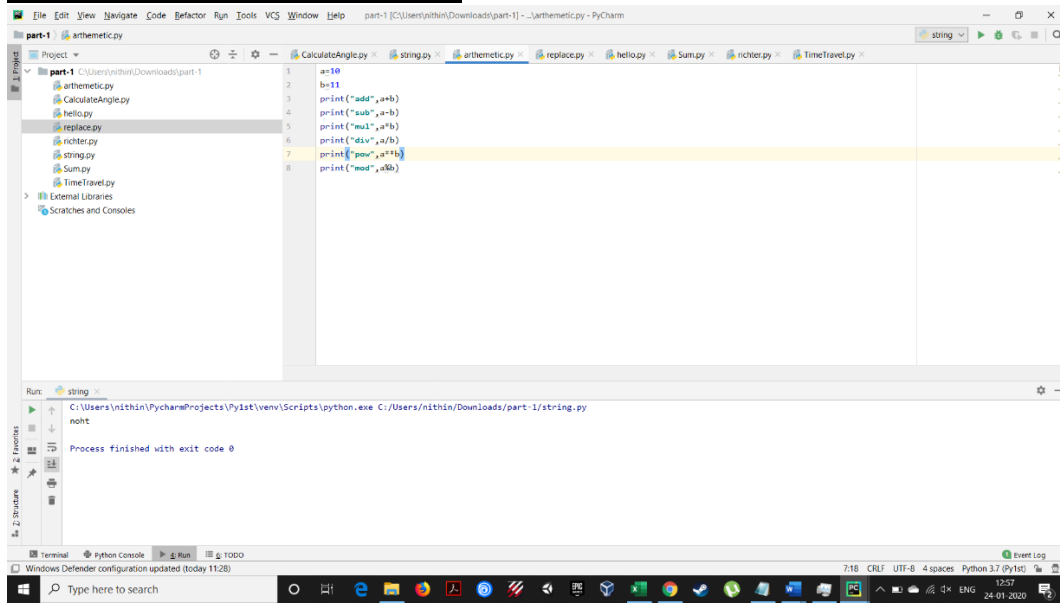
Terminal Python Console Run g: TODO

Windows Defender configuration updated (today 11:28)

2:16 CRLF UTF-8 4 spaces Python 3.7 (Py1st)

12:57 24.01.2020

ARITHMETIC OPERATIONS



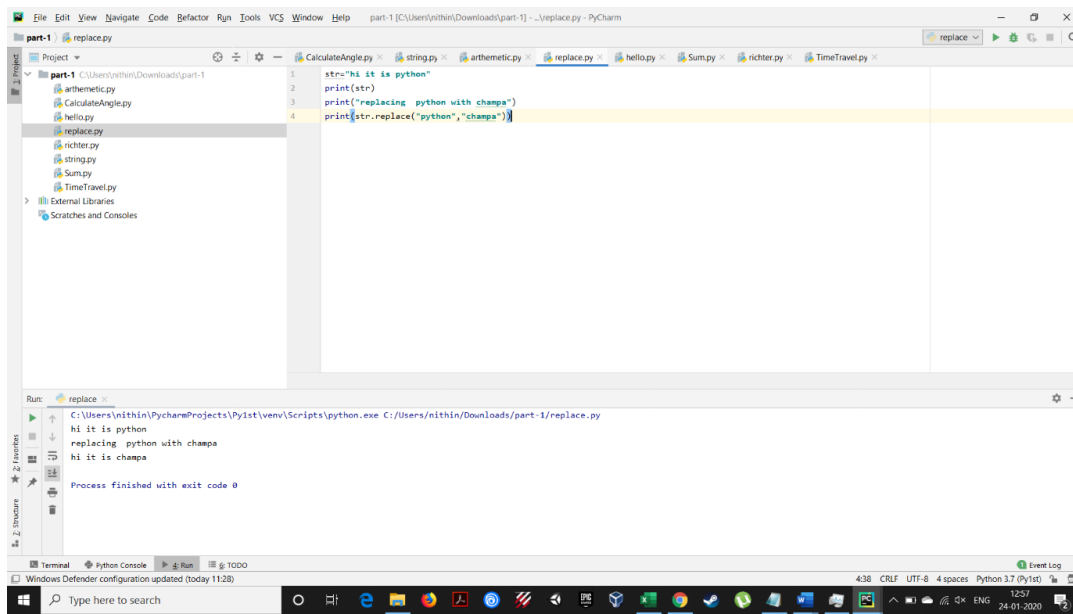
The screenshot shows the PyCharm IDE with a project named 'part-1'. The file explorer on the left lists several Python files: 'arithmetic.py', 'CalculateAngle.py', 'hello.py', 'replace.py', 'richter.py', 'string.py', 'Sum.py', and 'TimeTravel.py'. The 'arithmetic.py' file is open in the editor, displaying the following code:

```
1 a=10
2 b=11
3 print("add",a+b)
4 print("sub",a-b)
5 print("mul",a*b)
6 print("div",a/b)
7 print("pow",a**b)
8 print("mod",a%b)
```

The Run window at the bottom shows the execution output for 'string.py' (which is the active file in the Run window):

```
noht
Process finished with exit code 0
```

REPLACING A WORD IN STRING



The screenshot shows the PyCharm IDE with a project named 'part-1'. The file explorer on the left lists several Python files: 'arithmetic.py', 'CalculateAngle.py', 'hello.py', 'replace.py', 'richter.py', 'string.py', 'Sum.py', and 'TimeTravel.py'. The 'replace.py' file is open in the editor, displaying the following code:

```
1 str="hi it is python"
2 print(str)
3 print("replacing python with champa")
4 print(str.replace("python","champa"))
```

The Run window at the bottom shows the execution output for 'replace.py':

```
hi it is python
replacing python with champa
hi it is champa
Process finished with exit code 0
```

BY

TEAM 6

SRI SAI NITHIN CHOWDARY, DUKKIPATI 04

NIKHITHA KOLLURI 12

INAKOLLU, SRI NAGA BHUVANESHWARI 09