**String – Data Type**: -

#String is a class in Python having sequence of characters and it starts with "" and ''

**Every Data Type in Python is a Class**

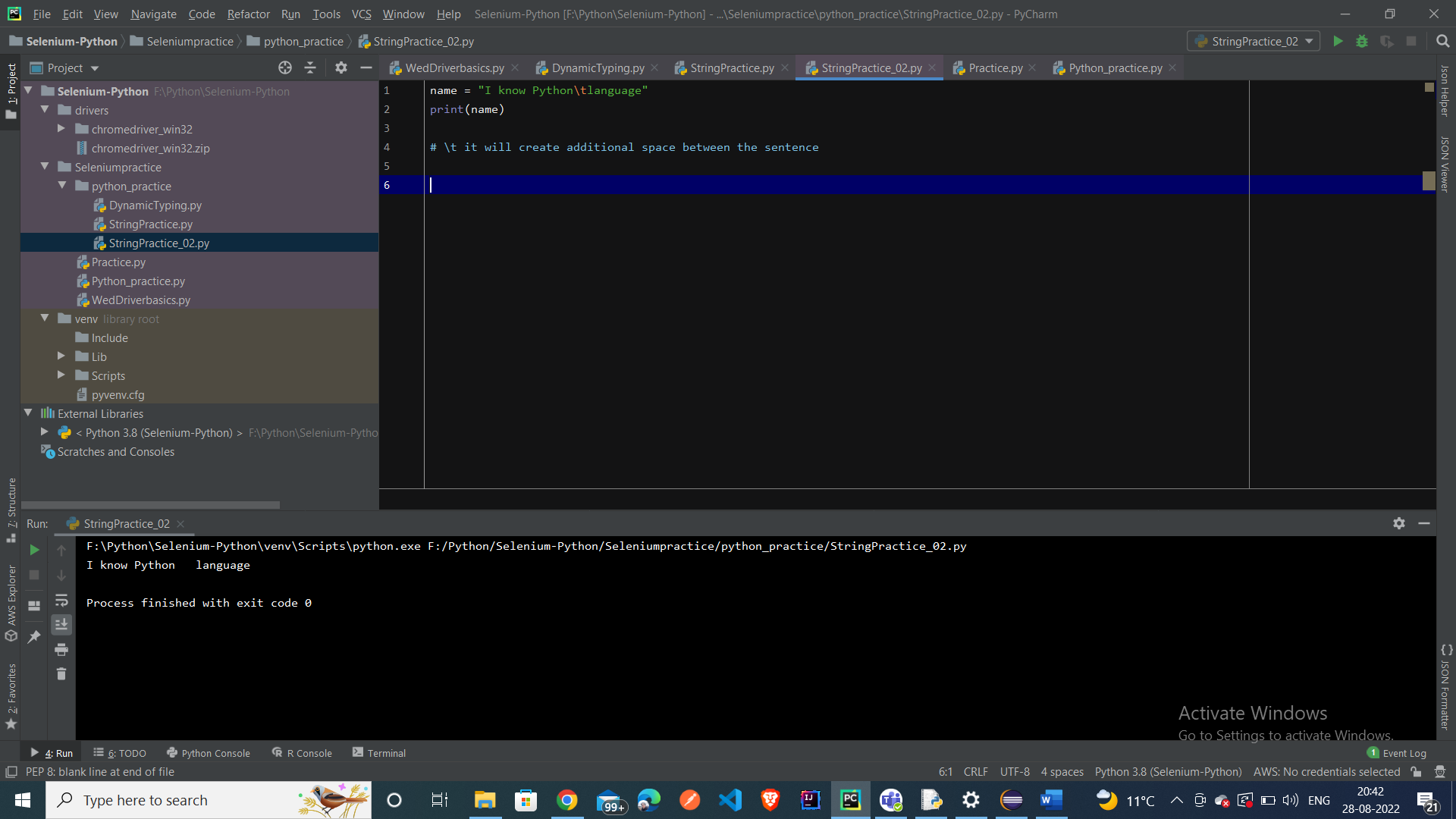
Graphical user interface, text, application

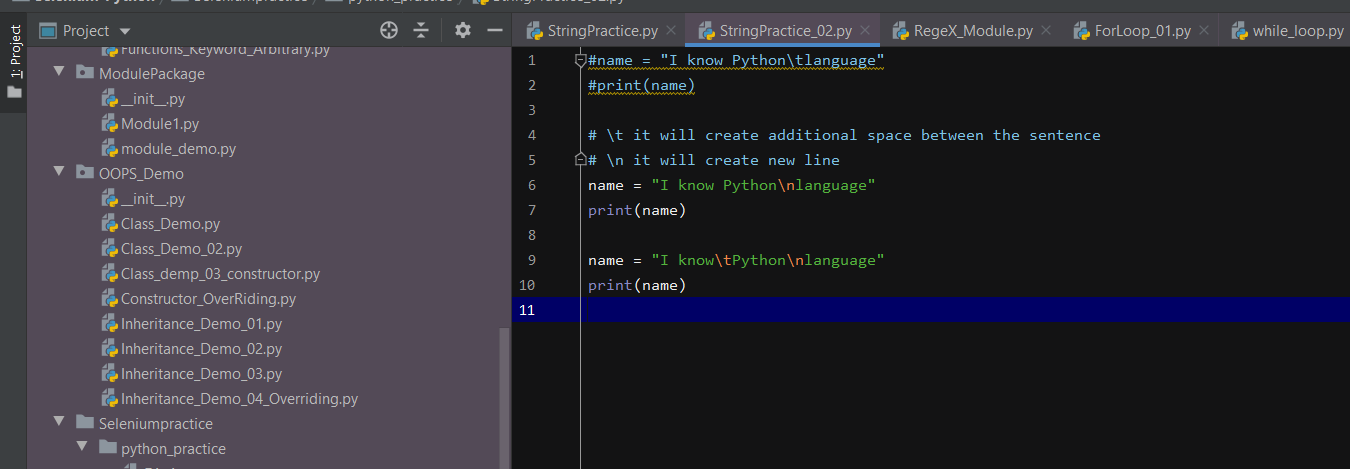
Description automatically generated

\\ - it will remove double quotes

\t – it will create space

\n it will create new line





String class methods – len – it will give the length – index – it will give the position length inside the string – **It will give output length as 14**

Text

Description automatically generated

Index – Method to know the index of position of character inside the String – it will Output as 2

Graphical user interface

Description automatically generated with medium confidence

**Replace Method** – to replace any character inside the String

Text

Description automatically generated

**Split Method** – to split the **string based on any character or the white spaces**: -

Text

Description automatically generated

It will store each element as List

To check if the String is in **Lower case and Upper case:- (isLower and isUpper)**

Text

Description automatically generated

To **count each character** inside the String: -

Text

Description automatically generated

**Format Method of the String** – it will replace each {} – inside the String with new String

Text

Description automatically generated

We can do the same thing by **using the key and value pair**

Text

Description automatically generated

We have **the f method to replace the String with {} and {}**

Text

Description automatically generated with medium confidence

In String – **strip method is there to remove the white spaces inside the String**: -

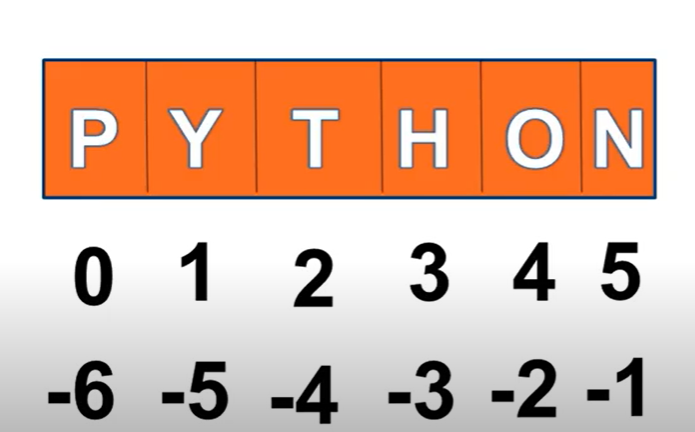
Graphical user interface, text

Description automatically generated

String – Indexing Concepts: -

String = “ PYTHON “

**Indexing of the Characters inside the String**



Text

Description automatically generated

It will give Output as P only

**Slicing** – It will give the specific words from the String

Graphical user interface, text

Description automatically generated

It will give output as Jitendra

Text

Description automatically generated

To reverse the String

Rectangle

Description automatically generated with medium confidence

Text

Description automatically generated with low confidence

Output – String Reverse

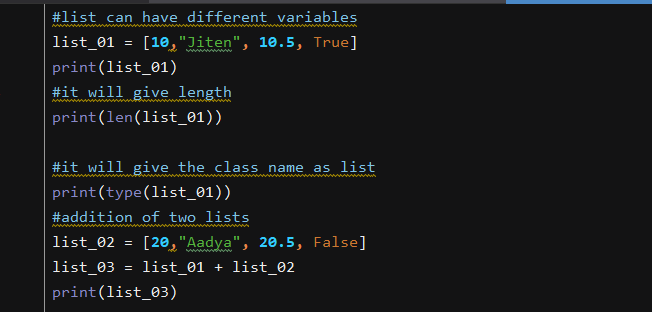
**List – Data Type**

Graphical user interface, text, application, chat or text message

Description automatically generated

**List – can store Different types of Data Elements**

**Add Two List Elements :-**



**TO create list in another way by passing the list values inside the List class – constructor**.

Text

Description automatically generated

**Index** – to get the **specific position inside the list – first element will start with 0th Position**

Text

Description automatically generated

**Count method** – it will give the **number of occurrences of each element inside the List**

**Slicing – to get some specific element from the list**

Text

Description automatically generated

Replace – **to Replace the Element inside the List**

Background pattern

Description automatically generated with medium confidence

Output – **It will replace the first element of the list with new value**

**Append – Method** – It will add an additional element inside the list.

Text

Description automatically generated

It will add new element inside the List

**Insert Keyword** – It will add the **2nd Index value with new element**

Graphical user interface, text

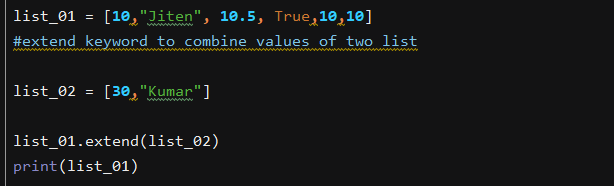
Description automatically generated

Output =-

A picture containing text

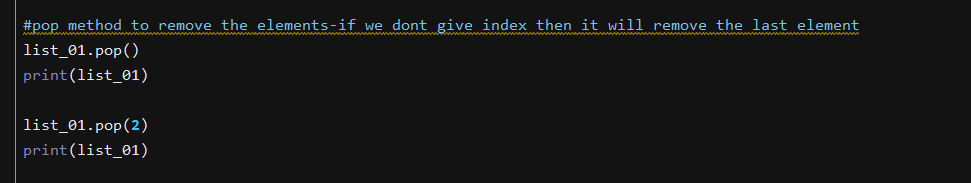
Description automatically generated

**Extend Keyword** to combine two list values: -



Output:- 

**Pop Method** – to remove the element inside the list – if we give Index value as blank – it will remove the last element inside the list



**If we give the index – it will remove the specific element inside the list**

**Reverse**: - To reverse the elements inside the list.

**Text

Description automatically generated**

**It will reverse the list**

To create list of elements inside the list **– inside the list – we are having the list with another list** :-

Shape

Description automatically generated with low confidence

TO access the **specific element inside the list – if we want to access the Selenium value from the list**

**Set**

Graphical user interface, text, application, chat or text message

Description automatically generated

Text

Description automatically generated

**Here 10 will only come once – as Set cannot have duplicate elements**.

Output - 

It is also unordered and it doesn’t follow any order .

**Second way of creating set is by passing the element inside the set Class Constructor**:-

Graphical user interface, text

Description automatically generated

**Addition and Removal of element inside the Set**

Text

Description automatically generated