#Examople: x="Python" x="python" x="Python" x="10" x="10.5" x="True" x="10+2j" x='Hello' x='python' In [2]: #How to Define multiline literals? x="""Good Morning India Python""" print(x) Good Morning India Python In [3]: x= "It's my own book" "It's my own book" Out[3]: In [4]: x= 'It"s my own book' 'It"s my own book' Out[4]: In [5]: x="On 18th of August 'India Will Going to Play Zimbawe'" Χ "On 18th of August 'India Will Going to Play Zimbawe'" Out[5]: In [6]: #How to access character of a string? x="Python" **#1.By Indexing** #2.By Using Slicing In [7]: #Python supports both positive and negative indexing #positive indexing -->left to right (forward direction) --> first element will be 0 #Negative indexing --> right to left(Backward direction) --> last elementb wil be -1 In [8]: #By Indexing--> accessing the character x="This is our Python course" print(len(x)) print(x[12]) print(x[20]) print(x[-2]) print(x[-12]) print(x[13]) #print(x[200])#index error:String index out of range #print(x[25])#Note: if we are trying to access chaaracter of the string within #the index then you will get the character value else you will get the error #Indexing last value -->len(string)-1 25 Ρ 0 У У In [9]: #String Input from the user #We need to print positive indexing and negative indexing x="Python is a Programming language" for i in range(len(x)): print("Forward index is "+str(i)+" Backward index "+str(i-len(x)), "Character is", x[i]) Forward index is 0 Backward index -33 Character is P Forward index is 1 Backward index -32 Character is y Forward index is 2 Backward index -31 Character is t Forward index is 3 Backward index -30 Character is h Forward index is 4 Backward index -29 Character is o Forward index is 5 Backward index -28 Character is n Forward index is 6 Backward index -27 Character is Forward index is 7 Backward index -26 Character is i Forward index is 8 Backward index -25 Character is s Forward index is 9 Backward index -24 Character is Forward index is 10 Backward index -23 Character is Forward index is 11 Backward index -22 Character is a Forward index is 12 Backward index -21 Character is Forward index is 13 Backward index -20 Character is P Forward index is 14 Backward index -19 Character is r Forward index is 15 Backward index -18 Character is o Forward index is 16 Backward index -17 Character is g Forward index is 17 Backward index -16 Character is r Forward index is 18 Backward index -15 Character is a Forward index is 19 Backward index -14 Character is m Forward index is 20 Backward index -13 Character is m Forward index is 21 Backward index -12 Character is i Forward index is 22 Backward index -11 Character is n Forward index is 23 Backward index -10 Character is g Forward index is 24 Backward index -9 Character is Forward index is 25 Backward index -8 Character is 1 Forward index is 26 Backward index -7 Character is a Forward index is 27 Backward index -6 Character is n Forward index is 28 Backward index -5 Character is g Forward index is 29 Backward index -4 Character is u Forward index is 30 Backward index -3 Character is a Forward index is 31 Backward index -2 Character is g Forward index is 32 Backward index -1 Character is e In [10]: #By Slicing --> access a piece of string x="Python is good programming language" In [11]: **#Syntax of Slicing:** #x[begin_index : ending_index : Steps] #Begin_index --> from where we have to consider the slicw(Substring) #end_index --> we have to terminate the slice(substring) at end_index-1 **#Step:** Increemented value In [12]: x="Python is good programming language" 'Python is good programming language' In [13]: x="Python is good programming language" x[0:9:3]'Ph ' Out[13]: In [14]: #If we are not specifiying the begin index then it will always consider begin index as 0 of the string #if we are not specifiying the ending index then python will consider the ending index as the length #of the string. #The default value for step is 1 In [15]: s="Learning python is very very easy!!!" print(s[1:7:1]) print(s[1:7:2]) earnin eri In [16]: print(s[:7]) Learnin In [17]: print(s[7:]) g python is very very easy!!! In [18]: print(s[::]) Learning python is very very easy!!! In [19]: print(s[:]) Learning python is very very easy!!! In [20]: #Bahviour of slicing #1.x[begin_index:end_index:] #2.Step value either be +ve or -ve #if step value is -ve - --> slicing will be done in backward direction #if step valye is +ve --> slicing will be done in forward direction In [21]: s="Learning python is very very easy!!!" print(s[-3 :-8:-2]) !se In [22]: s="abcdefghij" print(s[1:6:1]) print(s[1:6:2]) bcdef bdf In [23]: s="abcdefghij" print(s[::1]) abcdefghij In [24]: s="abcdefghij" print(s[::-1]) jihgfedcba In [25]: s="abcdefghij" print(s[0:20000:1]) abcdefghij In [26]: #Note: if you are trying to access index that is not present in the string then slicing will #never give you an error it will simply print the whole string. In [27]: #Concatenation operation over string(Addition) s="Rohit" x1="Sharma" #if we are using + operator between the two string then you will get answer as concatenation of #both the string s+x1'RohitSharma' Out[27]: In [28]: #Repetation operationr(Multiplication) x=" Rohit is a good cricket player/n" x*7 ' Rohit is a good cricket player/n Rohit is a go Out[28]: od cricket player/n Rohit is a good cricket player/n Rohit is a good cricket player/n' In [29]: #Membership Operator-->in and not in s=input("Enter the Main string") substring =input("Enter the substring") if substring in s: print("Present") else: print("Not present") Enter the Main stringpython Enter the substringpython Present In [30]: #Removing space from the string #strip() --> remove the spaces from both sides In [31]: x=" Python is a very good language x.strip() 'Python is a very good language' Out[31]: In [32]: #Finding substring #find() --> return the index of first occurance of the given string. #if element is not rpesneent then it will return -1 #index()--Exactly same to find(). if element is not present then it will give you an error In [33]: x="Learning Python is very Easy" print(x.find("Python")) #9 print(x.find("Java")) #-1 print(x.find("r")) # 9 -1 In [34]: #s.find(substring , begin_index , end_index) x="Learning Python is very Easy" print(x.find("Python", 10 , 15)) #9 print(x.find("Java")) #-1 print(x.find("r")) # -1 -1 3 In [35]: x="Learning Python is very Easy" print(x.index("Python")) #9 #print(x.index("Java")) #error print(x.index("r")) # 3 In [36]: #Uppercase x="pratyush" x.upper() 'PRATYUSH' Out[36]: In [37]: **#Lowercase** x="PRATYUSH" x.lower() 'pratyush' Out[37]: In [38]: #Capitalise --> change first character into the upper case x="python is very easy to learn" x.capitalize() 'Python is very easy to learn' Out[38]: In [39]: #Title --> change first character of each word x="pratyush srivastava" x.title() 'Pratyush Srivastava' Out[39]: In [40]: x="Python is a good programming lanaguge" x.islower() False Out[40]: In [41]: x="Python is a good programming lanaguge" x.isupper() False Out[41]: In [42]: x="PYTHON IS A GOOD PROGRAMMING LANGUAGE" x.isupper() True Out[42]: In [43]: x="python is a good programming lanaguge" x.islower() True Out[43]: In [44]: #Count s="abcabcabcabc" print(s.count("ab")) In [45]: s="abcabcabcabcabc" print(s.count("ac", 0, 10)) In [46]: #Count s="abcabcabcabc" print(s.count("ab",5,10)) 1 In [47]: #Replace #syntax of replace --> string.replace(old_string, new_string) s="Learning python is very difficult" s1=s.replace("difficult", "easy") 'Learning python is very easy' Out[47]: In [48]: #Split function --> convert string into list s="Learning is very easy" s.split() ['Learning', 'is', 'very', 'easy'] Out[48]: In [49]: #Join -->Convert list into string x=['Learning', 'is', 'very', 'easy'] y=" ".join(x)

'Learning is very easy'

#x=input() #-->return string only

#print()-->print the things that are insdie that function

Out[49]:

In [50]:

In []:

In [1]:

#What is a String?

#are known as String

#Any sequence of character either in single quotes or double quotes