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JupyterLab Python 3 (ipykernel)

30

[8]: # 4 .create a new List of 3 random strings and concatenate the two lists into a third List.

[9]: s1=("apple", "orange", "banana")

[10]: s2=("red", "orange", "banana")

[11]: s3=s1+s2

[12]: s3

[12]: ('apple', 'orange', 'banana', 'red', 'orange', 'banana')

[ ]:

[13]: #5.try to use a for loop to print each element in the List

[14]: for element in s3:  
 print(element)

apple  
orange  
banana  
red  
orange  
banana

[15]: #dictionary

[16]: # 1.create a dictionary with keys'name,'age,and 'address' and 'values''john',25 and 'New York respectively'

[15]: d2=dict(name='John' ,age=25,address='New York')  
d2

[15]: {'name': 'John', 'age': 25, 'address': 'New York'}

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JupyterLab Python 3 (ipykernel)

```
[15]: #dictionary

[16]: # 1.create a dictionary with keys'name,'age,and 'address' and 'values''john',25 and 'New York respectively'

[15]: d2=dict(name='John' ,age=25,address='New York')
      d2

[15]: {'name': 'John', 'age': 25, 'address': 'New York'}

[18]: #2.Add a new key-values pair to the dictionary created in Q1 with key 'phone and value'1234567890'.

[19]: d2['phone'] =1234567890
      d2

[19]: {'name': 'John', 'age': 25, 'address': 'New York', 'phone': 1234567890}

[19]: #3.Remove the key'address from the dictionary created in Q1

[21]: del d2['address']
      d2

[21]: {'name': 'John', 'age': 25, 'phone': 1234567890}

[20]: #4.Print the value of the key 'age' from the dictionary created in Q1.

[23]: print(d2['age'])

      25

[21]: #5.check if the key 'phone'exists in the dictionary created in Q1.

[25]: d2

[25]: {'name': 'John', 'age': 25, 'phone': 1234567890}
```

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Code

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JupyterLab Python 3 (ipykernel)

[19]: *#3.Remove the key'address' from the dictionary created in Q1*

[21]: `del d2['address']`  
`d2`

[21]: `{'name': 'John', 'age': 25, 'phone': 1234567890}`

[20]: *#4.Print the value of the key 'age' from the dictionary created in Q1.*

[23]: `print(d2['age'])`  
`25`

[21]: *#5.check if the key 'phone'exists in the dictionary created in Q1.*

[25]: `d2`

[25]: `{'name': 'John', 'age': 25, 'phone': 1234567890}`

[27]: `print(d2['phone'])`  
`1234567890`

[22]: *#set*

[ ]: *#1.create a set with values 1,2,3,4, and 5.*

[31]: `s1={1,2,3,4,5}`

[33]: `s1`

[33]: `{1, 2, 3, 4, 5}`

[ ]: *# 2.Add values 6 to the set*

[35]: `s1.add(6)`

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Python 3 (ipykernel)

[ ]: # 3.Remove the value 3 from the set.

[37]: s1.remove(2)  
s1

[37]: {1, 3, 4, 5, 6}

[ ]: # 4. print the lenth of the set.

[41]: print("length of the set:",len(s1))  
  
length of the set: 5

[ ]: # 5.create a new set by union of the set with another set{6,7,8}.

[43]: s2={6,7,8}

[45]: s2

[45]: {6, 7, 8}

[47]: s3=s1|s2

[49]: s3

[49]: {1, 3, 4, 5, 6, 7, 8}

[ ]: # Tuple

[ ]: # 1.create a tuple with values 1,2,3, and 4

[51]: t1=(1,2,3,4,)

[53]: t1

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```
[ ]: # Tuple

[ ]: # 1.create a tuple with values 1,2,3, and 4

[51]: t1=(1,2,3,4,)

[53]: t1

[53]: (1, 2, 3, 4)

[ ]: # 2.print the lenth of the tuple.

[55]: print("length of the tuple:",len(t1))

length of the tuple: 4

[ ]: # 3.create a new tuple by concatenating with another tuple (5,6).

[57]: t2=(5,6)

[63]: t3=t1+t2
t3

[63]: (1, 2, 3, 4, 5, 6)

[ ]: # 4.print the first two values of the new tuple.

[71]: print(t3[1:2])

(2,)

[ ]: # 5.check if the value 4 exist in the tuple.

[79]:
```



```
[71]: print(t3[1:2])
```

(2,)

```
[ ]: # 5.check if the value 4 exist in the tuple.
```

[79]:

```
exists=4 in t3
print("does 4 exist in the tuple?",exists)
```

does 4 exist in the tuple? True

```
[ ]: # string,list,set,dictionary comprehension
```

```
[ ]: Topic:string,list,set-dictionary comprehension
```

```
[ ]: #exercice 1
```

Write a program that asks the user to enter his/her full name **and** the program process **and** manipulate the text of his/her name. An example run of the program (numbers **in bold** are typed **in** by the user)

Please enter your first name: Peter

Please enter your last name: Cambridge

Your full name **is** PETER CAMBRIDGE

Your initials are P C

First name length **is** 5 letters

Last name length **is** 9 letters

Full name length **is 14** letters

First name starts with P

First name ends with R

Last name starts **with** C

Last name ends with E

First name indexes are 0 - 4

Last name indexes are 0 - 8

First name trims 1 Pet

First name trims 2 eter

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```
[ ]: #excercise 1
Write a program that asks the user to enter his/her full name and the program process and manipulate the text of his/her name.
An example run of the program (numbers in bold are typed in by the user)
Please enter your first name: Peter
Please enter your last name: Cambridge
Your full name is PETER CAMBRIDGE
Your initials are P C
First name length is 5 letters
Last name length is 9 letters
Full name length is 14 letters
First name starts with P
First name ends with R
Last name starts with C
Last name ends with E
First name indexes are 0 - 4
Last name indexes are 0 - 8
First name trims 1 Pet
First name trims 2 eter
Last name trims 1 Cam
Last name trims 2 bridge

[*]: # Function to manipulate and display name information
def process_name():
    # Get user input
    first_name = input("Please enter your first name: ")
    last_name = input("Please enter your last name: ")

    # Process the names
    full_name = f"{first_name} {last_name}"
    full_name_upper = full_name.upper()
    initials = f"{first_name[0]} {last_name[0]}"

    # Lengths of names
    first_name_length = len(first_name)
```

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JupyterLab Python 3 (ipykernel)

```
# Process the names
full_name = f"{first_name} {last_name}"
full_name_upper = full_name.upper()
initials = f"{first_name[0]} {last_name[0]}"

# Lengths of names
first_name_length = len(first_name)
last_name_length = len(last_name)
full_name_length = len(full_name)

# Start and end characters
first_name_starts = first_name[0]
first_name_ends = first_name[-1]
last_name_starts = last_name[0]
last_name_ends = last_name[-1]

# Index ranges
first_name_indexes = f"0 - {first_name_length - 1}"
last_name_indexes = f"0 - {last_name_length - 1}"

# Trimming the names
first_name_trim_1 = first_name[:-1]
first_name_trim_2 = first_name[1:]
last_name_trim_1 = last_name[:-1]
last_name_trim_2 = last_name[1:]

# Display results
print(f"Your full name is {full_name_upper}")
print(f"Your initials are {initials}")
print(f"First name length is {first_name_length} letters")
print(f"Last name length is {last_name_length} letters")
print(f"Full name length is {full_name_length} letters")
print(f"First name starts with {first_name_starts}")
print(f"First name ends with {first_name_ends}")
print(f"Last name starts with {last_name_starts}")
```

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Code

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JupyterLab Python 3 (ipykernel)

```
# Index ranges
first_name_indexes = f"0 - {first_name_length - 1}"
last_name_indexes = f"0 - {last_name_length - 1}"

# Trimming the names
first_name_trim_1 = first_name[:-1]
first_name_trim_2 = first_name[1:]
last_name_trim_1 = last_name[:-1]
last_name_trim_2 = last_name[1:]

# Display results
print(f"Your full name is {full_name_upper}")
print(f"Your initials are {initials}")
print(f"First name length is {first_name_length} letters")
print(f>Last name length is {last_name_length} letters")
print(f"Full name length is {full_name_length} letters")
print(f"First name starts with {first_name_starts}")
print(f"First name ends with {first_name_ends}")
print(f>Last name starts with {last_name_starts}")
print(f>Last name ends with {last_name_ends}")
print(f"First name indexes are {first_name_indexes}")
print(f>Last name indexes are {last_name_indexes}")
print(f"First name trims 1 {first_name_trim_1}")
print(f"First name trims 2 {first_name_trim_2}")
print(f>Last name trims 1 {last_name_trim_1}")
print(f>Last name trims 2 {last_name_trim_2}")

# Call the function to run the program
process_name()

Please enter your first name: 
```

[ ]:

# exercise 2

Write a program that asks the user to enter his/her name and then partly encrypt and display it.

Name :John

Encrypted name "J\*\*n"

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# Cut the junction to run the program  
process\_name()

Please enter your first name:

[ ]: # exercise 2  
Write a program that asks the user to enter his/her name and then partly encrypt and display it.  
Name :John  
Encrypted name "J\*\*n"

[1]: #ask user for their name  
name = input("Name:")  
  
#partly encrypt the name  
encrypted\_name =name[0] + "\*" \* (len(name)-2) + name[-1]  
  
# print encrypted name  
print(f"Encrypted name : {encrypted\_name}")  
  
Name: John  
Encrypted name : J\*\*n

[ ]:

[ ]: # Exercise3  
Write a python program to count the number of strings where the string is 2 or more and the first and last character are same from a given list of string  
sample List:['abc','xyz','aba','1221']  
expected result:2

[1]: s1=['abc','abc','xyz','aba','1221']  
s1

[1]: ['abc', 'abc', 'xyz', 'aba', '1221']

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JupyterLab Python 3 (ipykernel)

[ ]: # Exercise3

Write a python program to count the number of strings where the string is 2 or more and the first and last character are same from a given list of string  
sample List:['abc','xyz','aba','1221']  
expected result:2

[1]: s1=['abc','abc','xyz','aba','1221']  
s1

[1]: ['abc', 'abc', 'xyz', 'aba', '1221']

[3]: print(len(s1))  
  
5

[11]: count = sum(1 for s in s1 if len(s) >=2 and s[0] == s[-1])  
print(count)  
  
2

[ ]: #4.exercise 4

find all of the numbers from 1-1000 that are divisible by 7 using list comprehension.

[13]: numbers = [i for i in range(1,1000) if i % 7 == 0]  
print(numbers)  
  
[7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77, 84, 91, 98, 105, 112, 119, 126, 133, 140, 147, 154, 161, 168, 175, 182, 189, 196, 203, 210, 217, 224, 231, 238, 245, 252, 259, 266, 273, 280, 287, 294, 301, 308, 315, 322, 329, 336, 343, 350, 357, 364, 371, 378, 385, 392, 399, 406, 413, 420, 427, 434, 441, 448, 455, 462, 469, 476, 483, 490, 497, 504, 511, 518, 525, 532, 539, 546, 553, 560, 567, 574, 581, 588, 595, 602, 609, 616, 623, 630, 637, 644, 651, 658, 665, 672, 679, 686, 693, 700, 707, 714, 721, 728, 735, 742, 749, 756, 763, 770, 777, 784, 791, 798, 805, 812, 819, 826, 833, 840, 847, 854, 861, 868, 875, 882, 889, 896, 903, 910, 917, 924, 931, 938, 945, 952, 959, 966, 973, 980, 987, 994]

[ ]: # 5.Create dictionary from a List where the keys are the elements of the List and value of the dictionary is result after dividing the element by 3

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```
[1]: ['abc', 'abc', 'xyz', 'aba', '1221']

[3]: print(len(s1))

5

[11]: count = sum(1 for s in s1 if len(s) >= 2 and s[0] == s[-1])
      print(count)

2

[ ]: #4.exercise 4
      find all of the numbers from 1-1000 that are divisible by 7 using list comprehension.

[13]: numbers = [i for i in range(1,1000) if i % 7 == 0]
      print(numbers)

[7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77, 84, 91, 98, 105, 112, 119, 126, 133, 140, 147, 154, 161, 168, 175, 182, 189, 196, 203, 210, 217, 224, 231, 238, 245, 252, 259, 266, 273, 280, 287, 294, 301, 308, 315, 322, 329, 336, 343, 350, 357, 364, 371, 378, 385, 392, 399, 406, 413, 420, 427, 434, 441, 448, 455, 462, 469, 476, 483, 490, 497, 504, 511, 518, 525, 532, 539, 546, 553, 560, 567, 574, 581, 588, 595, 602, 609, 616, 623, 630, 637, 644, 651, 658, 665, 672, 679, 686, 693, 700, 707, 714, 721, 728, 735, 742, 749, 756, 763, 770, 777, 784, 791, 798, 805, 812, 819, 826, 833, 840, 847, 854, 861, 868, 875, 882, 889, 896, 903, 910, 917, 924, 931, 938, 945, 952, 959, 966, 973, 980, 987, 994]

[ ]: # 5.Create dictionary from a List where the keys are the elements of the List and value of the dictionary is result after dividing the element by 3

[17]: # create dictionary from List
      numbers = [1,2,3,4,5]
      dictionary = {num: num / 3 for num in numbers}
      print(dictionary)

{1: 0.3333333333333333, 2: 0.6666666666666666, 3: 1.0, 4: 1.3333333333333333, 5: 1.6666666666666667}

[ ]:
```

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