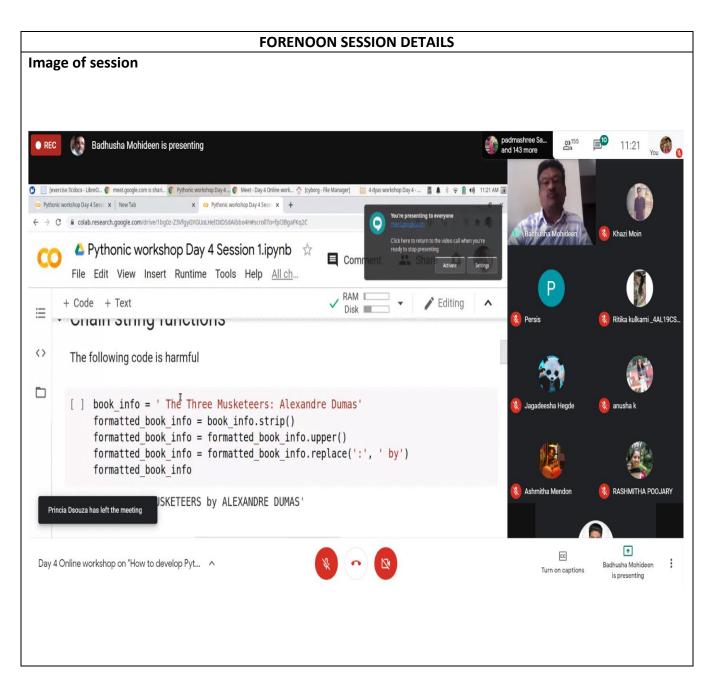
DAILY ASSESSMENT REPORT

Date:	24 July 2020	Name:	Gagan M K
Course:	How to develop Pythonic coding – Logic Perspective	USN:	4AL17EC032
Topic:	• Day 4	Semester & Section:	6 th sem & 'A' sec
GitHub Repository:	Alvas-education- foundation/Gagan-Git		



Report – Report can be typed or hand written for up to two pages.

Python:

```
· Writing Pythonic code
   The following code is harmful
   result_list = ['True', 'False', 'File not found']
   result_string = '
   for result in result_list:
    result_string += result
   result_string
    sing join function as per PEP 8 rule
    Saved successfully!
   The following code is idiomatic
   result_list = ['True', 'False', 'File not found']
   result_string = ''.join(result_list)
   result_string
    [ + 'TrueFalseFile not found'

    Chain string functions

   The following code is harmful
   book_info = ' The Three Musketeers: Alexandre Dumas'
   formatted_book_info = book_info.strip()
   formatted_book_info = formatted_book_info.upper()
https://colab.research.google.com/drive/1bg0z-23VfgyGYGUoLHeIOtDSdAibbo4H\#scrollTo=-yL3ufHtg3tx\&printMode=true
24/07/2020
                                                  Pythonic workshop Day 4 Session 1.ipynb - Colaboratory
   formatted_book_info = formatted_book_info.replace(':', ' by')
   formatted_book_info

□ 'THE THREE MUSKETEERS by ALEXANDRE DUMAS'

   The following code is idiomatic
   book_info = ' The Three Musketeers: Alexandre Dumas'
   formatted_book_info = book_info.strip().upper().replace(':', ' by')
   formatted_book_info
    - 'THE THREE MUSKETEERS by ALEXANDRE DUMAS'

    Removing Duplicates from a List

    Saved successfully!
   ints_list = [1, 2, 3, 4, 3, 2]
   temp = []
   for x in ints_list:
      if x not in temp:
           temp.append(x)
   ints_list = temp
   print(f'Updated List after removing duplicates = {temp}')
    □ Updated List after removing duplicates = [1, 2, 3, 4]
```

Map() function with lamda in Python

It is used t calls the specified function for each item of an iterable (such as string, list, tuple or dictionary) and returns a list of results.

```
def square(x):
    return x*x

numbers=[1, 2, 3, 4, 5]
sqrList=map(square, numbers)
print(list(sqrList))

# use lamda function to have direct values

Saved successfully!

D [1, 4, 9, 16, 25]
[1, 4, 9, 16]
```

In the above example, the map() function applies to each element in the numbers[] list.

Slicing operations in string

Program for exchanging first and last characters of a string using function

```
def change(string):
    return string[-1] + string[1:-1] + string[0]
string=input("Enter string:")
print("Modified string:",change(string))
print('original string:',string)
```

https://colab.research.google.com/drive/1bg0z-Z3VfgyGYGUoLHelOtDSdAibbo4H#scrollTo=-yL3ufHtq3tx&printMode=true-literature-literatu

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```
Enter string:vinay
Modified string: yinav
original string: vinay
```

Removing one character from a string

Sorting in Python using function

```
def myFunc(e):
    return len(e)
#myfunc=lambda x : len(x)
cars = ['Ford', 'Mitsubishi', 'BMW', 'VW']
rars.sort(kev=myFunr)
```

- A common neologism in the Python community is pythonic, which can have a wide range of meanings related to program style.
- To say that code is pythonic is to say that it uses Python idioms well, that it is natural or shows fluency in the language. Likewise, to say of an interface or language feature that it is pythonic is to say that it works well with Python idioms, that its use meshes well with the rest of the language.
- Python scripts can put the system into different states, set configurations, and test all sorts
 of real-world use cases. Python can also be used to receive embedded system data that can
 be stored for analysis.
- Programmers can then use Pythonto develop parameters and other methods of analyzing that data. There are certain things you can do with all sequence types.
- These operations include indexing, slicing, adding, multiplying, and checking for membership. In addition, Python has built-in functions for finding the length of a sequence and for finding its largest and smallest elements.
- One of the special concepts in Python is the idea of writing idiomatic code that is most aligned with the language features and ideals. In Python, we call this idiomatic code Pythonic.
- While this idea is easy to understand, it turns out to be fairly hard to make concrete. This
 course will take you on a tour of over 50 of the more popular and useful code examples
 demonstrating examples of Pythonic code.
- In the examples, you'll first see non-Pythonic code and then the more natural Pythonic
 version. Topics covered include the expansive use of dictionaries, hacking Python's memory
 usage via slots, using generators, comprehensions, and generator expressions, creating
 subsets of collections via slices (all the way to the database) and more.
- Several of these are Python 3 features so you'll have even more reason to adopt Python 3 for your next project.



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