CS5590/490 - Python and Deep Learning Programming
In Class Programming Report - 2
Class ID 24 - Anurag Thantharate
Date Submitted: 02/02/2020

Video Link: https://www.loom.com/share/0841bb46b85144a598f8b267c6f165aa

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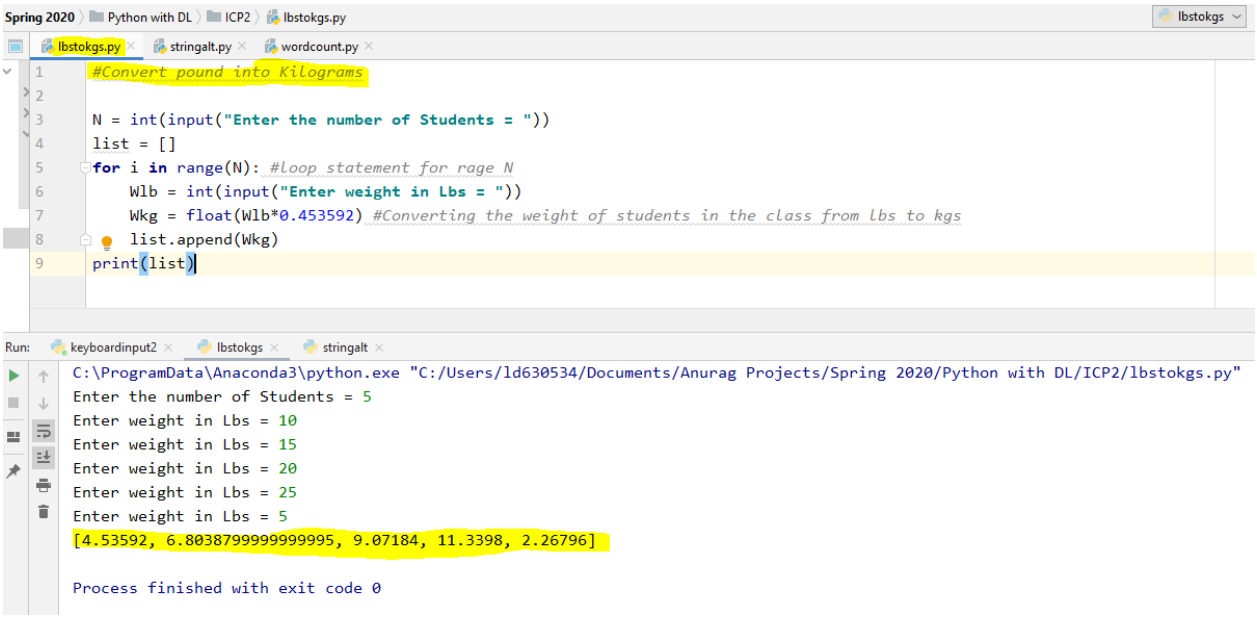
1. Write a program, which reads weights (lbs.) of N students into a list and convert these weights to kilograms in a separate list using:
   1) Loops and
   2) List comprehensions N: No of students (Read input from user)

   Ex: L1: [150,155, 145, 148]
   Output: [68.03, 70.3, 65.77, 67.13]



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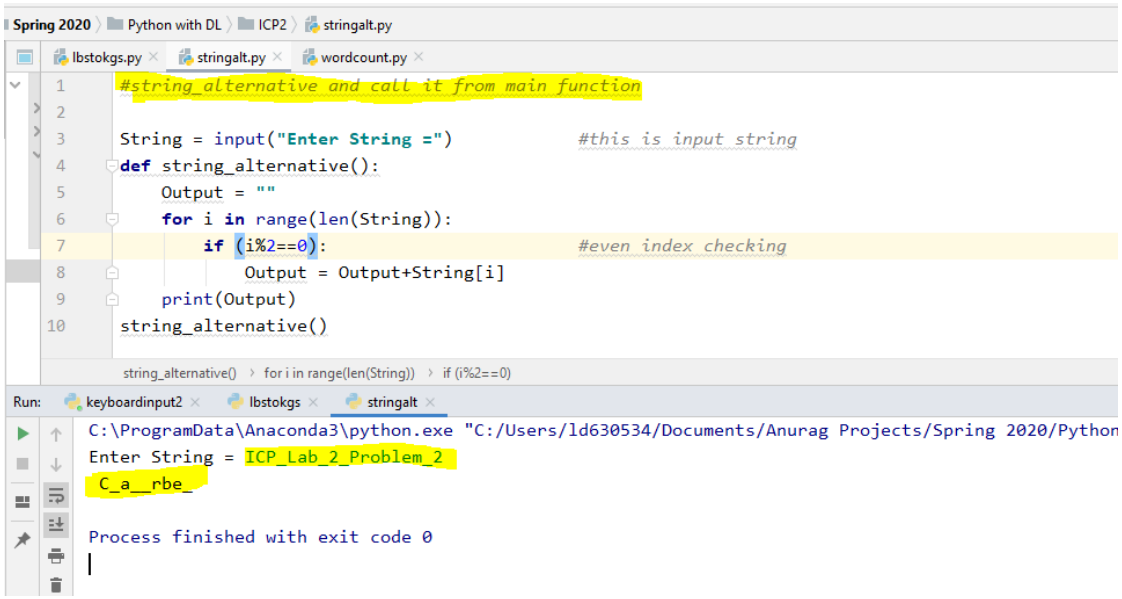
2. Write a program that returns every other char of a given string starting with first using a function named "string_alternative"

   Str = "Good evening"
   Output: Go vnn

   Note: You need to create a function named "string_alternative" for this program and call it from main function.



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3. Write a python program to find the word count in a file for each line and then print the output. Finally store the output back to the file.

   Input: a file includes two line
   Python Course
   Deep Learning Course

   Output:
   Python: 1
   Course: 2
   Deep: 1
   Learning: 1
   Note: Your program should work for any number of lines.

Spring 2020 〉 Python with DL 〉 ICP2 〉 wordcount.py

lbstokgs.py | stringalt.py | wordcount.py

```
1  #Word count in file
2
3  file = open('icp2file.txt','r')
4  Count= dict()                              #create new dictionary
5  for line in file:                          # Loop through each line of the file
6      words= line.strip().split(" ")         #Split the line into words
7      for word in words:
8          if word in Count:                  #Check word in dictionary is present
9              Count[word] = Count[word]+1
10         else:
11             Count[word] = 1
12 print (Count)
13 output= open("icp2file.txt",'a')           #Storing output to the same file"
14 output.write(str(Count))
```

Run: keyboardinput2 | lbstokgs | wordcount

```
C:\ProgramData\Anaconda3\python.exe "C:/Users/ld630534/Documents/Anurag Projects/Spring 2
{'Python': 1, 'Course': 2, 'Deep': 1, 'Learning': 1}

Process finished with exit code 0
```

icp2file - Notepad

File Edit Format View Help

```
Python Course
Deep Learning Course
{'Python': 1, 'Course': 2, 'Deep': 1, 'Learning': 1}
```
