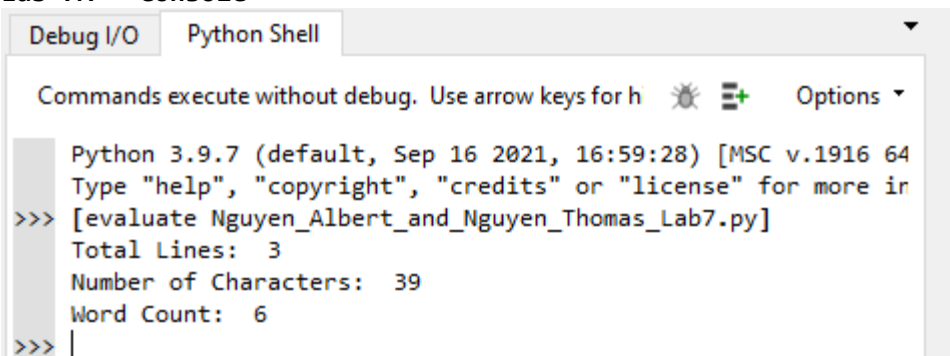


## Lab 7A



### Lab 7A - Code

```
1  #Line 2 opens the file and sets it to read
2  with open("courses.txt", "r") as inFile:
3      #Lines 4 and 5 defines the variable count for each element in the inFile
4      for lineCount, line in enumerate(inFile):
5          pass
6      #The variable lineCount is incremented by 1 for each line passed
7      print("Total Lines: ", lineCount + 1)
8  inFile.close()
9
10
11  inFile = open("courses.txt", "r")
12  #The file is open and read
13  myFile = inFile.read()
14  #The length of the file is taken and stored in a variable
15  charCount = len(myFile)
16  #The count is printed
17  print("Number of Characters: ", charCount)
18  inFile.close()
19
20  inFile = open("courses.txt", "r")
21  #An individual counter is used
22  wordCount = 0
23  #The file is split and read
24  myFile = inFile.read().split()
25  #The for loop checks each word in the file to see if it is not numeric
26  for word in myFile:
27      if not word.isnumeric():
28          #If the word is not numeric the count is incremented
29          wordCount += 1
30  print("Word Count: ", wordCount)
31
32  #Expected Outputs:
33  #Number of Lines = 3
34  #Number of Characters = 39
35  #Number of Words = 6
36
37
```

### Lab 7A - Console




Debug I/O Python Shell

Commands execute without debug. Use arrow keys for h   Options ▾

Python 3.9.7 (default, Sep 16 2021, 16:59:28) [MSC v.1916 64  
Type "help", "copyright", "credits" or "license" for more in  
>>> [evaluate Nguyen\_Albert\_and\_Nguyen\_Thomas\_Lab7.py]  
Total Lines: 3  
Number of Characters: 39  
Word Count: 6  
>>> |

### Lab 7A - Output File

 courses - Notepad

File Edit Format View Help

---

CS 170 Java 1  
CS 150 C++ 1  
CS 250 C++ 2

## Lab 7B

### Lab 7B - Code

```
Lab7B.py (c:\Users\anguyen79\Documents\CS131-47853-homework\Chapter 7): Wing
File Edit Source Debug Tools Window Help
Lab7B.py
1 with open("Lab7bOutput.txt", "w") as outputFile :
2     lineHeading = 1
3     with open("Lab7bInput.txt", "r") as inputFile :
4         for line in inputFile :
5             lineText = line.strip()
6             outputFile.write("/ * %d * / %s\n" % (lineHeading, lineText))
7             lineHeading = lineHeading + 1
8
```

### Lab 7B - Output Files

#### Reading from Lab7bInput.txt

PC > Documents > CS131-47853-homework > Chapter 7

Name	Date modified	Type	Size	
lyrics	3/20/2023 6:59 PM	Text Document	1 KB	Mary had a little lamb whose fleece was white as snow. And everywhere that Mary went, The lamb was sure to go!
lyricsReadingTest	3/20/2023 7:01 PM	Python Source File	1 KB	
input	3/20/2023 7:37 PM	Text Document	1 KB	
programmingAssignment3B	3/20/2023 7:39 PM	Python Source File	1 KB	
programmingAssignment3A	3/20/2023 7:48 PM	Python Source File	1 KB	
3aOutput	3/20/2023 7:48 PM	Text Document	1 KB	
nguyen_albert_programming_assignment_3	3/20/2023 8:07 PM	Microsoft Word D...	286 KB	
nguyen_albert_programming_assignment_3	3/20/2023 8:08 PM	PDF File	240 KB	
Lab7B	3/22/2023 8:00 PM	Python Source File	1 KB	
Lab7bInput	3/22/2023 8:00 PM	Text Document	1 KB	

#### Writing to Lab7bOutput.txt

PC > Documents > CS131-47853-homework > Chapter 7

Name	Date modified	Type	Size	
lyrics	3/20/2023 6:59 PM	Text Document	1 KB	/* 1 */ Mary had a little lamb /* 2 */ whose fleece was white as snow. /* 3 */ And everywhere that Mary went, /* 4 */ The lamb was sure to go!
lyricsReadingTest	3/20/2023 7:01 PM	Python Source File	1 KB	
input	3/20/2023 7:37 PM	Text Document	1 KB	
programmingAssignment3B	3/20/2023 7:39 PM	Python Source File	1 KB	
programmingAssignment3A	3/20/2023 7:48 PM	Python Source File	1 KB	
3aOutput	3/20/2023 7:48 PM	Text Document	1 KB	
nguyen_albert_programming_assignment_3	3/20/2023 8:07 PM	Microsoft Word D...	286 KB	
nguyen_albert_programming_assignment_3	3/20/2023 8:08 PM	PDF File	240 KB	
Lab7B	3/22/2023 8:00 PM	Python Source File	1 KB	
Lab7bInput	3/22/2023 8:00 PM	Text Document	1 KB	
Lab7bOutput	3/22/2023 8:02 PM	Text Document	1 KB	

### Lab 7B - Console

```
Python Shell: Wing
Python Shell
Commands execute without debug. Use arrow keys for history.
Python 3.9.7 (default, Sep 16 2021, 16:59:28) [MSC v.1916 64 bit (AMD64)]
Type "help", "copyright", "credits" or "license" for more information.
>>> [evaluate Lab7B.py]
>>>
```

## Lab 7B - Written Code

```
with open("Lab7bOutput.txt", "w") as outputFile :  
    lineHeading = 1  
    with open("Lab7bInput.txt", "r") as inputFile :  
        for line in inputFile :  
            lineText = line.strip()  
            outputFile.write("/ * %d * / %s\n" % (lineHeading, lineText))  
            lineHeading = lineHeading + 1
```