

## LAB 11: File Handling

### Part A: File

1. Create a file using mode 'x'  
`file = open("test.txt", "x")`
2. File handling

**Python File Handling**

Create/ Write	Read	List	Copy	Copy
<pre>file = open('test.txt', ' w') file.write("This is the write command") file.write("\nIt allows you to write anything into the file") file.close()</pre>	<pre>file = open("test.txt", "r") print (file.read())</pre>	<pre>List files from directory directory = os.listdir(path)</pre>	<pre>Copy, rename, delete files from directory os.rename(oldFile , newFile) os.remove(path) shutil.copy('path ', 'newPath') shutil.move('path ', 'newPath')</pre>	<pre>Copy, delete directories shutil.rmtree('pa th') #remove directory shutil.copypath(' oldPath', newPath) #copy directory</pre>

3. Insert multiple lines into a file  
`file.writelines(["Hello world", "I'm Python", "Don't afraid to use me\n"])`
4. Reads all the lines in file.  
`print(file.readlines())`
5. Read from a file line by line  

```
file = open('practice.txt', 'w')
file.writelines("Hi!\nWelcome to the python programming\nLet's continue
exploring")
file = open('practice.txt', 'r')

for python in file:
    print(python)

file.close()
```
6. Count the lines in text file  

```
count = 0
for line in file:
    count = count + 1

print('Line Count:', count)
```

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7. Read length of the text in a file and display string using slice.

```
inp = file.read()

print(len(inp))

print(inp[0:20])
```

8. Read the text file line by line and remove any whitespace using strip()

```
while(True):
    line = file.readline()
    if not line:
        break

    print(line.strip())
```

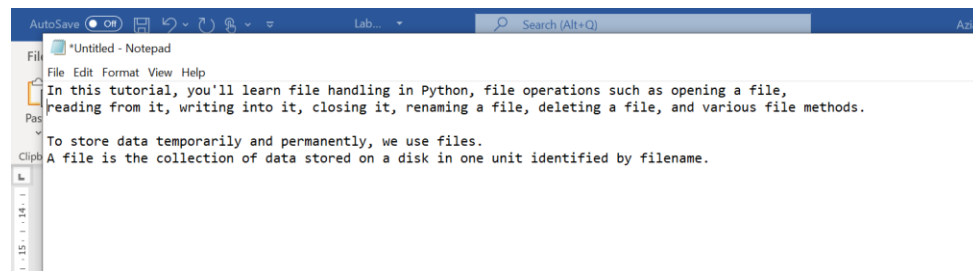
9. Read UTF-8 text files

```
with open('practice.txt', encoding='utf8') as f:
    for line in f:
        print(line.strip())
```

### Part B: Test yourself!

1. Write a program that opens an output file with the filename "my.txt", writes the name of animal, some fruit, and your country to the file on separate lines, then close the file.
2. Write a function in python to read the content from a text file "python.txt" line by line and display the same on screen.

Create a text file and store the lines as below:



3. Write a function in python to count the number of lines from a text file "story.txt" which is not starting with an alphabet "T".

The file "story.txt" should contains any story of yours or you may use the following lines:

Once upon a time, a farmer had a goose that laid a golden egg every day. The egg provided enough money for the farmer and his wife for their day-to-day needs. The farmer and his wife were happy for a long time. But one day, the farmer got an idea and thought, "Why should I take just one egg a day? Why can't I take all of them at once and make a lot of money?"

4. Write a Python program to remove duplicate lines from a text file. Your program should:

- a. Write a content below into a text file named "Revision.txt"

```
Hello this is Python
Good Morning
Hello this is Python
```

## Programming with Python

```
I love Python  
coding is the best!
```

- b. Create an empty text file named `newRevision.txt`. You will write the new content after removing the duplicate lines into this file.
- c. Create an empty list to store the unique lines of the file.