



What we did:

In last class we started learning about python language syntax and wrote our first python program.

In this class we learned to write user defined functions.

How we did it:

We used some predefined functions of python such as open(), read()

```
rajeev@atlantis ~/D/gettingFilesList> python3

Python 3.6.9 (default, Apr 18 2020, 01:56:04)

[GCC 8.4.0] on linux

Type "help", "copyright", "credits" or "license" for more information.

>>> f = open("test.txt")

>>> f.read()

'This is a test file. This is a sample text.\n'

>>> \[
\begin{align*}
\text{Type more information.}

\text{Type
```

We also understood how to use functions defined on the file object to read the files line by line.

```
>>> f = open("test.txt")
>>> fileLines = f.readlines()
>>> for line in fileLines:
... print(line)
...
This is a test file. This is a sample text.
>>> \
```

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We learnt to use split function with custom operators.

```
>>> introString = "My name is Wily, I am 15 years old."
>>> words = introString.split()
>>>
>>> print(words)
['My', 'name', 'is', 'Wily,', 'I', 'am', '15', 'years', 'old.']
>>> []
```

With custom operator

```
>>> introString = "My name is Wily, I am 15 years old."
>>> words = introString.split(",")
>>> print(words)
['My name is Wily', ' I am 15 years old.']
>>> |
```

We learnt how to write user defined functions We wrote our first function

```
>>> def greet(name):
... print("Hello, " + name + ". How are you?")
...
>>> greet("Rahul")
Hello, Rahul. How are you?
>>> []
```

Then we wrote a program to count the words from the file.

We defined the function called countWordsFromFile(). Which would take a name of the file as input

```
function.py • test.bxt

1 def countWordsFromFile():
2 fileName = input("Enter the file name:- ")
3
```

We opened the file in read mode

```
function.py test.txt

def countWordsFromFile():
    fileName = input("Enter the file name:- ")
    file = open(fileName, 'r')
```

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Using for loop we split the line into words. We also declared a variable called numberOfWords and increment the count each time there is a word.

```
function.py
def countWordsFromFile():
    file = open(fileName, 'r')
        words = line.split()
      function.py
def countWordsFromFile():
    fileName = input("Enter the file name: - ")
   numberOfWords = 0
    file = open(fileName, 'r')
def countWordsFromFile():
     fileName = input("Enter the file name: - ")
     numberOfWords = 0
     file = open(fileName, 'r')
     for line in file:
        words = line.split()
```

Then we printed the number of words and called the function.



```
function.py test.bd

def countWordsFromFile():
    fileName = input("Enter the file name:- ")

numberOfWords = 0

file = open(fileName, 'r')
for line in file:
    words = line.split()

numberOfWords = numberOfWords + len(words)
print("Number of words:")
print(numberOfWords)

countWordsFromFile()
```

What's next?

In the next class, we will learn to take backup of files.