

Python : File Processing

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- Many programs handle data, which often comes from files.
- Opening a file

```
variableName = open ("filename", "mode")
```

Example:

```
file = open ("bankaccount.txt")
```

Open Reading (default)

```
file = open("bankaccount.txt", 'r')
```

Open for writing or overwriting

```
file = open("bankaccount.txt", 'w')
```

Open for appending

```
file = open("bankaccount.txt", 'a')
```

Open in binary mode

```
file = open("bankaccount.txt", 'rb')
```

```
file = open("bankaccount.txt", 'wb')
```

- Closing a file: First you should open the file in any one mode

variableName.close()

Example:

```
file = open("bankaccount.txt")  
file.close()
```

- Reading the entire contents of a file:

```
variableName = open ("filename") .read (size=-1)
```

Or

```
variableName = open ("filename")
```

```
variableName .read ()
```

Example:

```
file_text = open ("bankaccount.txt") .read ()
```

- Reading a file line-by-line:

```
variableName = open ("filename") .readline (size=-1)
```

or

```
variableName = open ("filename")
```

```
variableName .readline (size=-1)
```

Example:

```
file_text = open ("bankaccount.txt") .readline ()
```

- Reading a file line-by-line:

```
variableName = open("filename").readlines()  
for line in open("filename").readlines():  
    statements
```

Example:

```
count = 0  
for line in open("bankaccount.txt").readlines():  
    count = count + 1  
print("The file contains", count, "lines.")
```

```
count = 0
with open("bankaccount.txt") as reader:
    for line in reader.readlines():
        count = count + 1
        print(line,end=' ')
print("The file contains", count, "lines.")
```

```
count = 0
with open("bankaccount.txt") as reader:
    for line in reader:
        count = count + 1
        print(line,end=' ')
print("The file contains", count, "lines.")
```



```
count = 0
for line in open("bankaccount.txt"):
    count = count + 1
    print(line)
print("The file contains", count, "lines.")
```

- Reading a file line-by-line:

```
variableName = open ("filename", 'w' ).write (string)
```

or

```
variableName = open ("filename", 'w' )
```

```
variableName .write (string)
```

Example:

```
Filewrite = open ("bankaccount.tx", 'w' )
```

```
Filewrite.write ("Account No: 2442, \n
```

```
Account Name : SB")
```

```
Filewrite.close ()
```

```
count = 0
with open("bankaccount.txt", 'w') as writer:
    for line in reader.readlines():
        count = count + 1
        print(line, end=' ')
print("The file contains", count, "lines.")
```

```
count = 0
with open("bankaccount.txt") as reader:
    for line in reader:
        count = count + 1
        print(line, end=' ')
print("The file contains", count, "lines.")
```



End of Python File Processing



IP[y]:
IPython



pandas
 $y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$

