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## Files in Python ¶

In [1]:

```
# create and open a file by open method  
data=open("text.txt", "w")
```

In [2]:

```
# Write data in that file  
data.write("This is my first Line of File")
```

Out[2]:

29

In [3]:

```
# Now try to read it
```

In [4]:

```
data.read()
```

```
-----  
UnsupportedOperation                                Traceback (most recent call last)  
~\AppData\Local\Temp\ipykernel_33380\1846824914.py in <module>  
----> 1 data.read()
```

**UnsupportedOperation:** not readable

In [5]:

```
# it doesnt works because while opening file we gave access to only write "w" but not to read  
# so now close the write file and Lets open it to read  
data.close()
```

In [6]:

```
data1=open("text.txt", "r")
```

In [7]:

```
# Now Let's read it.  
data1.read()
```

Out[7]:

```
'This is my first Line of File'
```

In [8]:

```
# Lets try to read it once more  
data1.read()
```

Out[8]:

''

In [9]:

```
# It's giving none as while reading for first time , there will be a cursor which has moved  
# Now Lets move the cursor back to first place by using SEEK method  
data1.seek(0)
```

Out[9]:

0

In [10]:

```
# Let's now try the read  
data1.read()
```

Out[10]:

'This is my first Line of File'

In [11]:

```
data1.seek(5)
```

Out[11]:

5

In [12]:

```
data1.read()
```

Out[12]:

'is my first Line of File'

In [13]:

```
data1.close()
```

In [14]:

```
# once again open the file and write on it as continuation using "a" as file type
```

In [15]:

```
data2=open("text.txt", "a")
```

In [16]:

```
data2.write(" This is my second one")
```

Out[16]:

22

In [17]:

```
data2.close()
```

In [18]:

```
data3=open("text.txt","r")
```

In [19]:

```
data3.read()
```

Out[19]:

'This is my first Line of File This is my second one'

In [20]:

```
# copy the text in this file to another file
import shutil
shutil.copy("text.txt", "text1.txt")
```

Out[20]:

'text1.txt'

In [21]:

```
# Open file in another way
with open("text1.txt", "r") as f:
    print(f.read())
```

This is my first Line of File This is my second one

In [22]:

```
# delete a file
import os
os.remove("text1.txt")
```

In [23]:

```
with open("text1.txt", "r") as f:  
    print(f.read())
```

-----  
**FileNotFoundError** Traceback (most recent call last)

~\AppData\Local\Temp\ipykernel\_33380\1133432019.py in <module>

```
----> 1 with open("text1.txt", "r") as f:  
      2     print(f.read())
```

**FileNotFoundError**: [Errno 2] No such file or directory: 'text1.txt'