



File handling

file object = open(file_name [, access_mode])

The "r" is for reading, the "w" for writing and the "a" for appending.

fl=open("abc.txt","r")

This opens the filename for reading.

By default, the file is opened with the "r" parameter.

f=open('demofile1.txt','r')

f.close()

if file doesn't exist, It will generate error.





Read

```
f=open('demofile1.txt','r')  
aa=f.read()  
print(aa)  
f.close()
```

```
File Edit Shell Debug Options Window Help  
Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 17:26:49) [MSC v.1900 32 bit (Intel)]  
on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: D:\python programs\6filehandling\openfile.py =====  
welcome to piford  
i am your trainer  
you are doing programming  
you are programmer  
>>> |
```





Read(number_of_lines)

```
f=open('demofile1.txt','r')  
aa=f.read(10)  
print(aa)  
f.close()
```

```
Python 3.6.3 (v3.6.3:2c5fed8, Oct  3 2017, 17:26:49) [MSC v.1900 32 bit (Intel)]  
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>>>  
===== RESTART: D:\python programs\6filehandling\openfile.py =====  
welcome to  
>>> |
```





Readlines

```
f=open('demofile1.txt','r')  
aa=f.readlines()  
print(aa)  
f.close()
```

The readlines function returns a list containing all the lines of data in the file.

```
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on win32  
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>>>  
===== RESTART: D:\python programs\6filehandling\openfile.py =====  
['welcome to piford\n', 'i am your trainer\n', 'you are doing programming\n', 'y  
ou are programmer']  
>>> |
```





Readline

```
f=open('demofile1.txt','r')  
aa=f.readline()  
print(aa)  
f.close()
```

The readline function reads a single line from the file. Use readline() when you want to get the first line of the file.

```
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===== RESTART: D:\python programs\6filehandling\openfile.py =====  
welcome to piford  
>>> |
```



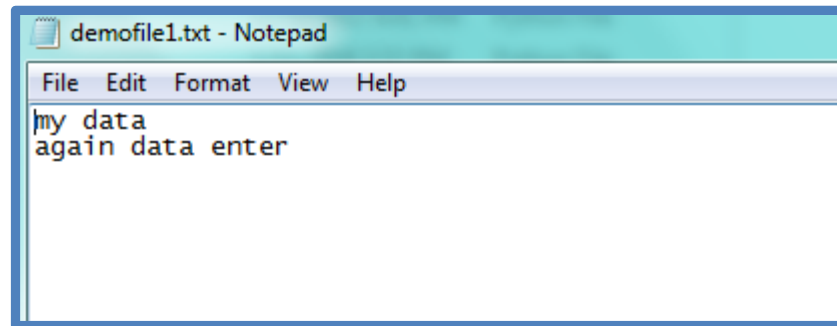


Write

“w” -> open with write power, means if the file exists then delete all content and open it to write

```
f=open('demofile1.txt','w')  
f.write('my data\n')  
f.write('again data enter\n')
```

```
f.close()
```





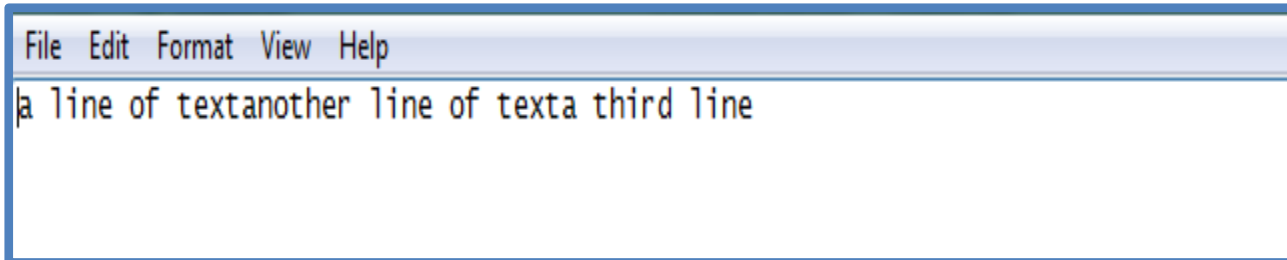
Writelines

With the writelines function you can write a list of strings to a file

```
f=open('demofile1.txt','w')
```

```
lines_of_text = ["a line of text", "another line of  
text", "a third line"]
```

```
f.writelines(lines_of_text)
```



File Edit Format View Help

a line of textanother line of texta third line



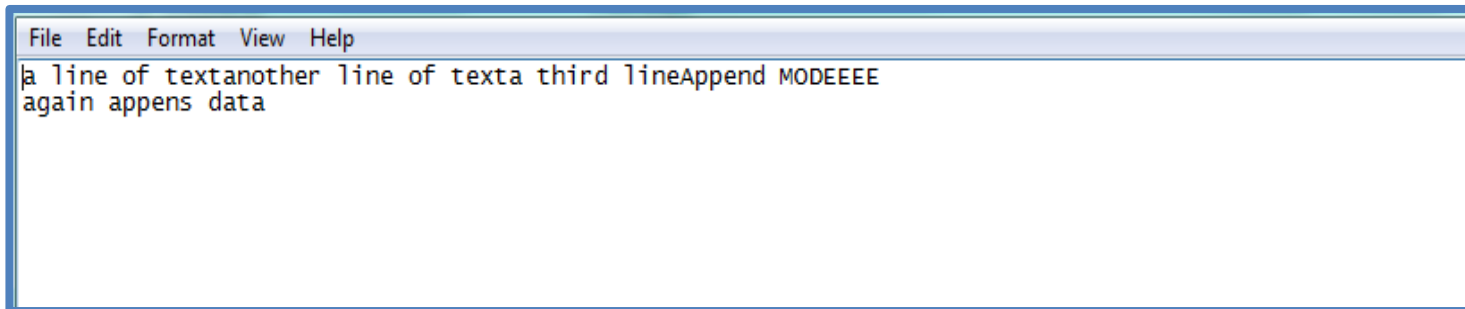


Append mode

For any modifications use append mode

```
f=open('demofile1.txt','a')  
f.write('Append MODEEEE\n')  
f.write('again appens data\n')  
f.close()
```

'a' opens the file for appending. any data written to the file is automatically added to the end. It will not delete the old data and new data will be added along with that old data



Program for taking file name from user and then read its content.

```
fnm=input("Enter file name: ")  
f=open(fnm,'r')  
aa=f.read()  
print(aa)  
f.close()
```

```
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on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: D:\python programs\6filehandling\input file.py =====  
Enter file name: demofile1.txt  
a line of textanother line of texta third lineAppend MODEEEEE  
again appens data  
>>> |
```



Find the position

```
f=open('demofile1.txt','r')
aa=f.read(10)
print(aa)
ss=f.tell();
print("current position",ss)
f.close()
```

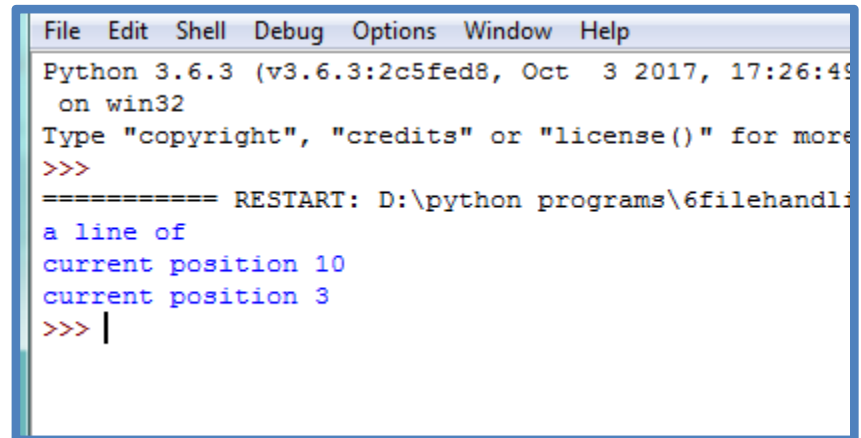
```
Python 3.6.3 (v3.6.3:2c5fed8, Oct  3 2017, 17:26:49) [MSC v.1900 32 bit (Intel)]
on win32
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>>>
===== RESTART: D:\python programs\6filehandling\position.py =====
a line of
current position 10
>>> |
```





We can change our current reading position in the file by seeking

```
f=open('demofile1.txt','r')
aa=f.read(10)
print(aa)
ss=f.tell();
print("current position",ss)
sk=f.seek(3)
ss1=f.tell();
print("current position",ss1)
f.close()
```



```
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>>>
===== RESTART: D:\python programs\6filehandl
a line of
current position 10
current position 3
>>> |
```





Other Functions

os module help you perform file-processing operations, such as renaming and deleting files.

```
import os
```

```
os.rename("demofile1.txt","demofile2.txt")
```

```
#Rename file name
```

```
os.remove("demofile2.txt")
```

```
#Remove file from directory
```

