



# Python Day 5

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# Recursion

When a function calls itself repeatedly.

#prints n to 1 backward

```
def show(n):  
    if(n==0):  
        return  
    print(n)  
    show(n-1)
```

#returns n!

```
def fact(n):  
    if(n==0 or n==1):  
        return 1  
    else:  
        return n* fact(n-1)
```





# File I/O in Python

Python can be used to perform operations on a file. (read & write data)

## Types of all files

1. Text Files : .txt, .docx, .log etc.
2. Binary Files : .mp4, .mov, .png, .jpeg etc.

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# Open, read & close File


We have to open a file before reading or writing.

```
f = open("file_name","mode")
```

sample.txt  
demo.docx

A blue arrow points from the "file\_name" argument in the code above to the text "sample.txt" and "demo.docx".

R: read mode  
W: write mode

A blue arrow points from the "mode" argument in the code above to the text "R: read mode" and "W: write mode".

```
data = f.read()  
f.close()
```

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# File Mode

‘r’ open for reading

‘w’ open for writing , truncating the file first

‘x’ create a new file and open it for writing

‘a’ open for writing , appending to the end of the file if it exists

‘b’ binary mode

‘t’ text mode

‘+’ open disk file for updating

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# Reading a file

```
data = f.read()
```

```
data = f.readline()    #reads all line at a time
```

## Writing to a file

```
f = open("demo.txt","w")  
f.write("this is a new line")    #overwrites the entire file
```

```
f = open("demo.txt","a")  
f.write("this is a new line")    #adds to the file
```

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# With Syntax



```
With open("demo.txt","a") as f:  
    data=f.read()
```

## Deleting a File

using the os module

Module (like a code library) is a file written by another programmer that generally has a functions we can use.

```
Import os  
os.remove( filename )
```

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## Thanks



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Keep learning



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Daily practice



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