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File I/O

```
In [ ]: FILE I/O referes to the process of reading data from files(input) and writing th
 In [ ]: File :
         file path
         file mode method - r,rw,r+,ra, wr,w+,wa,
         File Buffering - size
         encoding method-utf-8, utf-16,ASCII, ISO-LATIN1
In [10]: # basic file create
         f = open('demo.txt','w+')
         f.read()
         f.close() # always close the files.
         where -->
         ## Mode Methods
         r -- read
         w --> write
         w+---> create/write
         rw+--->read, create/write
         w+r -->
         a--> append
         r+ --> read/write
         b --binary files
         rb - read binary
         wb - write binary
         ab -- append binary
In [11]: # 2
         with open('example.txt','w+') as file:
              file.write("Hi, This is the python lecture class")
 In [ ]: with -- > context manager
         1- automatically close the file
         {\bf 2} - memory management {\bf is} good compare to basic file opening
 In [ ]: # File Objects method
         1- file.read()
         2- file.write()
         3- file.readlines()
```

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```
4- file.close()
5- file.flush()
```

File Write

```
In [13]: f1 = open('C:\\Users\\jitud\\21-July\\python\\demo.txt','w')
   f1.write("Hello, Python")
   f1.close()

In [15]: # Or
   with open('C:\\Users\\jitud\\21-July\\python\\demo.txt','w') as f2:
        f2.write("Hello, worlds")
```

FILE READ

FILE Append

File readlines

```
In [24]: with open('C:\\Users\\jitud\\21-July\\python\\demo.txt','r') as f3:
    print(f3.readlines())

['Hello, worlds\n', 'New Lines added\n', 'New Lines added\n', 'New Lines added']
```

FIle specific no of characters

```
In [26]: with open('C:\\Users\\jitud\\21-July\\python\\demo.txt','r') as f3:
    print(f3.read(7))
Hello,
```

File Positioning

```
In [ ]: File.tell
File.seek
```

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```
In [31]: with open('C:\\Users\\jitud\\21-July\\python\\demo.txt','r+') as f3:
             print(f3.tell()) # current cursor position
             c = f3.read(5)
             print(f3.tell())
             f3.seek(0) # set the cursor postion
             print(f3.tell())
        0
        5
        0
In [ ]: #
         with open('file.txt', 'w+') as f:
             f.write()
             f.read()
             f.append()
In [ ]: try:
             with open('file.txt', 'w+') as f:
                 f.write()
                 f.read()
                 f.append()
         except Exception as e:
             print(e)
```