01-files

June 10, 2022

1 Working with files

```
f = open(filename, mode)
```

- **r**, this is the default mode, which opens a file for reading
- **w**, this mode opens a file for writing, if the file does not exist, it creates a new file.
- **a**, open a file in append mode, append data to end of file. If the file does not exist, it creates a new file.
- **b**, open a file in binary mode.
- **r+**, open a file (do not create) for reading and **writing**.
- **w+**, open or create a file for writing and **reading**, discard existing contents.
- **a+**, open or create file for **reading** and writing, and append data to end of file.

```
[1]: open
```

```
[1]: <function io.open(file, mode='r', buffering=-1, encoding=None, errors=None,
     newline=None, closefd=True, opener=None)>
```

```
[2]: file = open('myFile.txt')
     print(file)
```

```
<_io.TextIOWrapper name='myFile.txt' mode='r' encoding='UTF-8'>
```

```
[3]: file = open('myFile.txt')
     for line in file:
         print(line, end='')
     file.close()
```

```
I've hunted near, I've hunted far
I even looked inside my car.
I've lost my glasses, I'm in need,
To have them now so I can read.
```

```
[4]: file = open('myFile.txt', "a")
     file.write("\nLook at me I'm writing to a file!")
     file.close()

     file = open('myFile.txt', "r")
     print(file.read())
```

```
file.close()
```

```
I've hunted near, I've hunted far
I even looked inside my car.
I've lost my glasses, I'm in need,
To have them now so I can read.
Look at me I'm writing to a file!
```

[6]:
```
file = open('myFile.txt','r+')
file.write("\nHello")
print(file.read())
```

```
unted near, I've hunted far
I even looked inside my car.
I've lost my glasses, I'm in need,
To have them now so I can read.
Look at me I'm writing to a file!
```

[6]:
```
file.seek(0,0)
print(file.read())
```

```
Hellounted near, I've hunted far
I even looked inside my car.
I've lost my glasses, I'm in need,
To have them now so I can read.
Look at me I'm writing to a file!
```

[7]:
```
file.seek(3,0)
print(file.read())
```

```
llounted near, I've hunted far
I even looked inside my car.
I've lost my glasses, I'm in need,
To have them now so I can read.
Look at me I'm writing to a file!
```

[8]:
```
file.seek(0,0)
print(file.readlines())
```

```
['\n', "Hellounted near, I've hunted far\n", 'I even looked inside my car.\n',
"I've lost my glasses, I'm in need,\n", 'To have them now so I can read.\n',
"Look at me I'm writing to a file!"]
```

[ ]:
```
file.close()
```

[ ]: