# Files in Python

Friday, August 19, 2022 11:12 AM

## A

**What is a class and what is an object in Python?**

1. Python is an object-oriented programming language
2. Almost everything in Python is an object, with its properties and methods
3. A class is like a 'blueprint' for creating objects

**Class**

```
class MyClass:
  x = 5
```

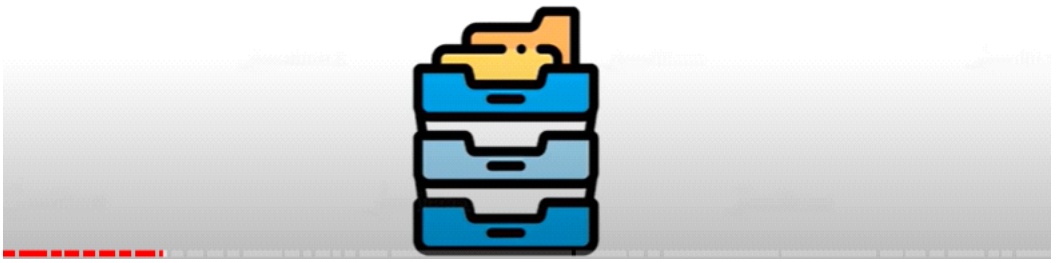
**Object**

```
obj1 = MyClass()
print(obj1.x)
```

```
5
```

**Why do we need file handling?**

File handling is important in any application that handles permanent data. We will need file handling if we have to read from or write to files



**There are 4 aspects in the file management**
**1.read**
**2.Write/Create**
**3.Open**
**4.Delete**

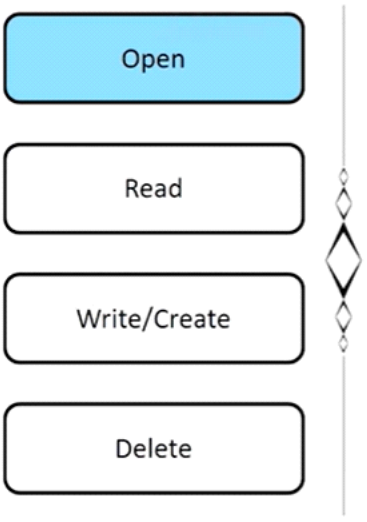
## Create

To create a new file

- **'x' – Create**: Creates a file; returns an error if the file already exists

```
# Create a new file
f = open("myfile.txt", "x")
```

## Open



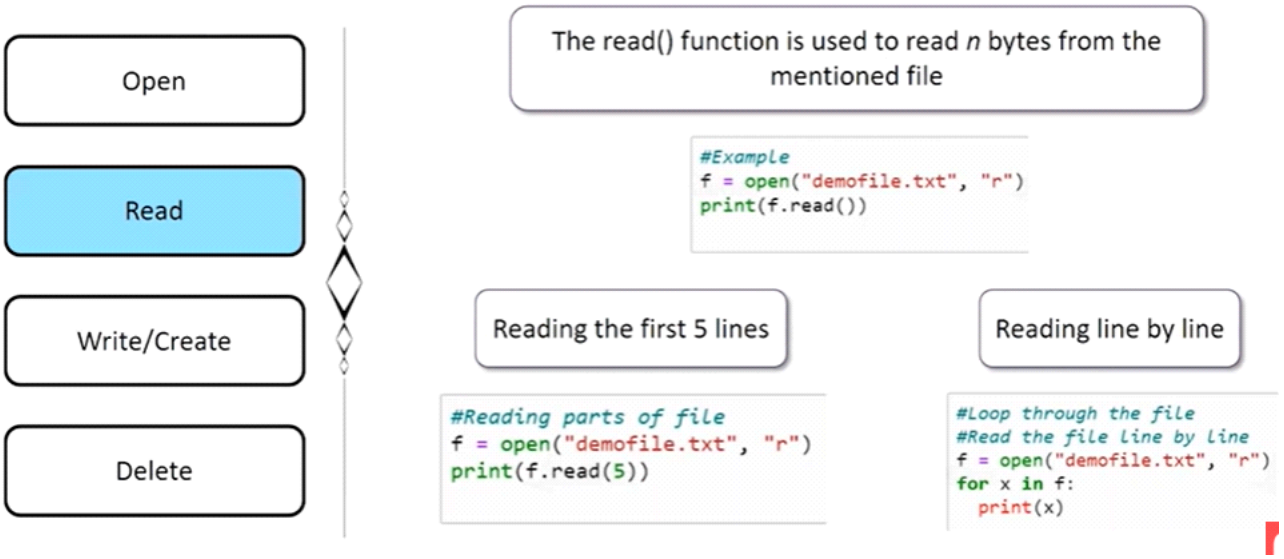

The open() function takes two parameters: filename and mode

```
#Syntax
f = open("path of file")
```

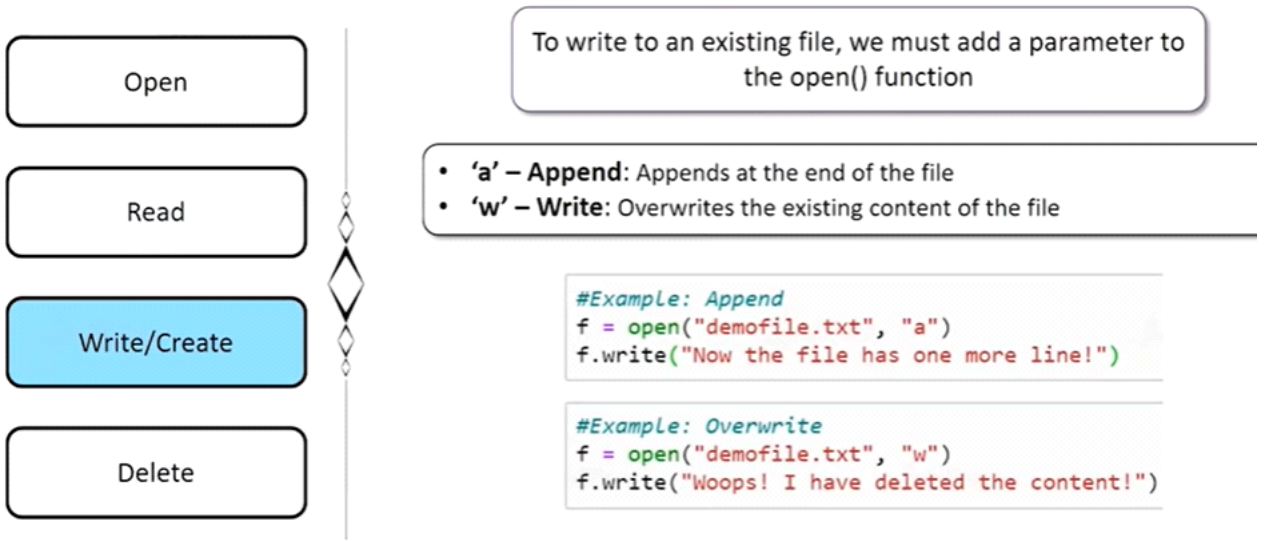
**Mode Options**

- **'r' – Read**: The default value; opens a file for reading; returns an error if the file does not exist
- **'a' – Append**: Opens a file for appending; creates the file if it does not exist
- **'w' – Write**: Opens a file for writing; creates the file if it does not exist
- **'x' – Create**: Creates the specified file; returns an error if a file with the same name already exists

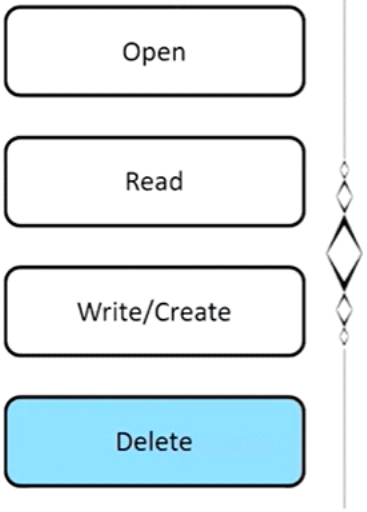
## Read




## Write




## Delete




To import the OS module

Use the remove() function to delete the mentioned file

```
# Deleting the file
import os
os.remove("demofile.txt")
```