

# Working With Files and Directories

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# Introduction to Files and Directories

- We usually work with file and directories when we work on computers.
- Our data is stored in the form of files in directories.
- Often, we will need to create files in our programs to store our output data for later use.
- Programs can be written also to modify the data stored in a file.
- In this module, we will see how to work with files and folders in Python.
- Python's file operations are modeled after the Unix System and is available through the OS module.

# Common File Operations

We can create a file by simply using the open method. If the file specified doesn't already exist, it will be created.

```
import os
fout = open( 'my_file.txt', 'wt' )
fout.close()
# Check if the file has been created with exists()
os.path.exists( 'my_file.txt' )
True
```

# Common File Operations

We can check if the given path is a file or a directory by using the `isfile()` and `isdir()` methods.

```
name = 'my_file.txt'
os.path.isfile(name)
True
```

```
# to check if its a directory
os.path.isdir(name)
False
```

# Common File Operations

Some of the other commonly used file operations are:

*# Get the current working directory*

```
os.getcwd()
```

*# Get all the files in the current workind direccorry*

```
os.listdir()
```

*# Rename a file*

```
os.rename('old_file_name', 'new_file_name')
```

More coding examples at - [link](#)

# Calendar and Date

# Summary

- We learned how to use Python's os module to perform different file and directory related operations.
- We learned how to use Python to interact with the operating system to accomplish system tasks.
- We learned how to deal with Calendar, Date and Time in Python.