Python - OS Module

The OS module in Python provides functions for creating and removing a directory (folder), fetching its contents, changing and identifying the current directory, etc.

You first need to import the os module to interact with the underlying operating system.

Getting current working directory

```
import os
a=os.getcwd()
print('dir=',a)
```

Creating a Directory

We can create a new directory using the os.mkdir() function

```
import os
os.mkdir('gautampythonproject')
```

A new directory corresponding to the path in the string argument of the function will be created. If you open the D:\ drive, then you will see the gautampythonproject folder has been created.

By default, if you don't specify the whole path in the mkdir() function, it will create the specified directory in the current working directory or drive.

```
import os
os.mkdir('D:\gautampythonproject')
```

Changing the Current Working Directory

```
import os

os.mkdir("C:\gautamproject")
os.chdir('C:\gautamproject')
print(os.getcwd())
```

You can change the current working directory to a drive. The following makes the $c:\$ drive as the current working directory.

```
import os
os.chdir("C:\\")
print(os.getcwd())
```

In order to set the current directory to the parent directory use ".." as the argument in the chdir() function.

```
import os

os.chdir("..")
print(os.getcwd())
```

Removing a Directory

The rmdir() function in the OS module removes the specified directory either with an absolute or relative path. Note that, for a directory to be removed, it should be empty.

```
import os
os.rmdir('gautamproject')
print(os.getcwd())
```