Os

Python Reference Document for os module:

<https://www.geeksforgeeks.org/os-module-python-examples/>

**What is the os module?**

The os module in Python is used to be able to interact with the operating system. Using the os module and commands that are understood by all platforms help make a program portable from platform to platform.

**Using the os module:**

To use you must import os

The os module has many attributes and methods. To see a list of them we can do:

* print(dir(os))

Following are some of the most commonly used:

To get current working directory:

* os.getcwd()

To change current working directory:

* os.chdir(‘<path>’)

To list files and folders on current directory:

* os.listdir()

To create/make new directories:

* os.mkdir(‘dirName’)
* os.makedirs(‘dirName/dirName2’) # Will make directory within directory

To delete/remove directories:

* os.rmdir(‘dirName’)
* os.removedirs(‘dirName/dirName2’) # will remove the whole path

To rename file:

* os.rename(‘original.txt’, ‘newName.txt’)

To see what is in a file:

* os.stat(‘fileName.txt’)
* os.stat(‘fileName.txt’).st\_size # .attribute to see certain information

To see directory tree and files use walk(): # yields a tuple of 3 values.

* for dirpath, dirnames, filenames in os.walk(‘path’):

print(‘Current Path:’, dirpath)

print(‘Directories:’, dirnames)

print(‘Files:’, filenames)

  print()

# will print all file names within path

To get home directory path:

* os.environ.get(‘HOME’)

To join paths: # takes two arguments

* os.path.join(‘home/path/’, ‘test.txt’)

os.path has other methods like:

* os.path.basename(‘path’) # print main file name
* ps.path.dirname(‘path’) # print directory name
* os.path.split(‘path’) # split directory and file name
* os.path.exists(‘path’) # to check if path exists-boolean
* os.path.isdir(‘path’) # to check if directory exists-boolean
* os.path.isfile(‘path’) # to check if file exists-boolean
* os.path.splitext(‘path’) # will split the root and extension (.txt)

MULTIPLE CHOICE QUESTIONS

1)I want to change a file name from Project.txt to FinalProject.txt using the os module. Which of the following would accomplish this?

A)  os.rename(‘original.txt’, ‘newName.txt’)

B) rename.os(‘FinalProject.txt’)

C) os.rename(Project.txt, FinalProject.txt)  
D) Just open the file, then Save As to change the name

2) We are using os.path.isfile command to check to see if a file exists. If the file does exist, what will the command return?

1. Yes
2. True
3. <file name>
4. <file name>CONFIRMED