

LECTURE 19

THE OS MODULE

MCS 260 Fall 2020

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REMINDERS

- Project 2 due Friday at 6:00pm central
- Worksheet 7 available

THE OS MODULE

```
import os
```

gives your program access to lots of functions that ask the operating system to do things.

Today we focus on the **filesystem** operations in this module.

LIVE CODING

- `shell_10am.py`
- `shell_2pm.py`

SHELL COMMANDS

- `pwd` - print working directory
- `cd` - change working directory
- `ls` - list files in a directory
- `cat` - display file contents
- `rm` - remove a file
- `mkdir` - create a directory
- `rmdir` - remove a directory

OS MODULE METHODS

- `os.getcwd()` - get working directory
- `os.chdir(dirname)` - change working directory
- `os.listdir(dirname)` - get list of files in directory
- `os.mkdir(dirname)` - create a directory
- `os.rmdir(dirname)` - remove a directory
- `os.remove(filename)` - remove a file

OS MODULE METHODS

- `os.path.join(part0, part1, ...)` - join path components (using proper separator for the OS)
- `os.path.exists(name)` - True if name exists
- `os.path.isfile(name)` - True if name is a file
- `os.path.isdir(name)` - True if name is a directory

REFERENCES

- In *Downey*:
 - Section 14.4 discusses some of the features of the os module

REVISION HISTORY

- 2020-10-06 Initial publication

