Decisions

'if statement' - performs some action when some criteria is true

```
if <condition>:

    print("condition is true")
```

Boolean Variables

- variables that equate to either True or False

answer = True

wrong = False

Constants

- a variable that doesn't change its value

e.g. PI = 3.14159.....

- in Python, uppercase snake-case variables

identify constant variables

- e.g. PI, PAY_RATE, MOVIE_NAME

Python Conventions

https://www.python.org/dev/peps/pep-0008/

- identation = 4 spaces

Python 3 disallows mixing the use of tabs and spaces for indentation.

Limit all lines to a maximum of 79 characters.

File Encodings

ASCII - American Standard Code for Information Interchange...

- max. 256 characters

- Unicode - many more characters allowed

Conditions

- comparing integers to integers

- comparing strings to strings

- <, >, <=, >=, ==, !=

- compares variables with fixed values or variables with other variables

Vacation or not?

- my salary > 1,000,000

- if yes: vacation!

  if not: ...no vacation...

if...else statement

```
if <condition>:

    ...do something if True

else:

    ...do something if False
```

if...elif...else statement

```
if <condition 1>:

    ...do if condition 1 is True

elif <condition 2>:

    ... do if condition 1 is False, but 2 is True

else:

    ... do if both conditions are False
```