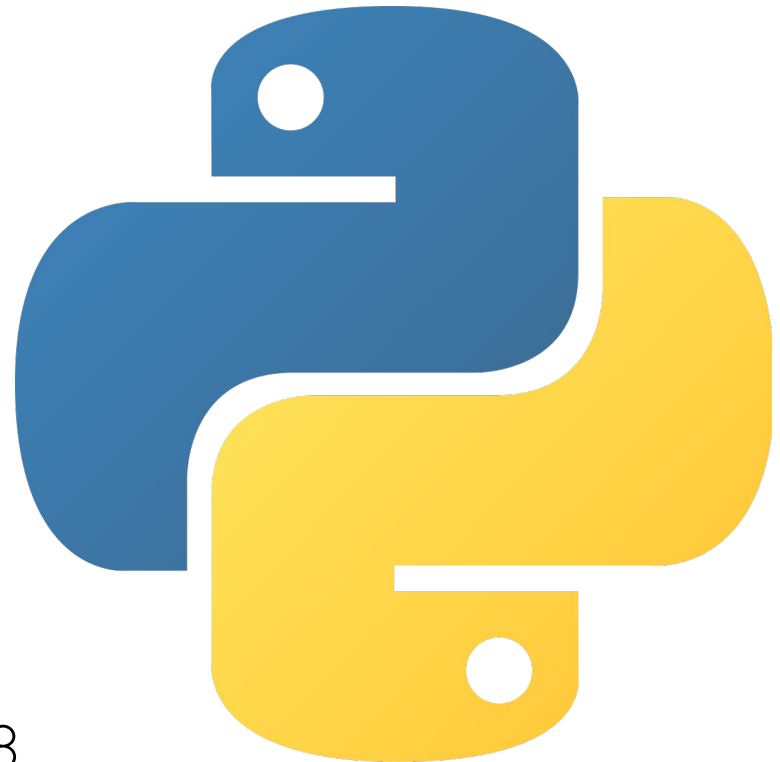# HackerFrogs Afterschool
Python Programming Basics: Extra

Class:
Programming (Python)

Workshop Number:
AS-PRO-PY-??

Document Version:
1.2

Special Requirements:
Completion of AS-PRO-PY-08

What We Learned Before

This workshop is an extra class for intro Python programming.

During our last workshop, we learned about a few programming concepts through Python, including the following:
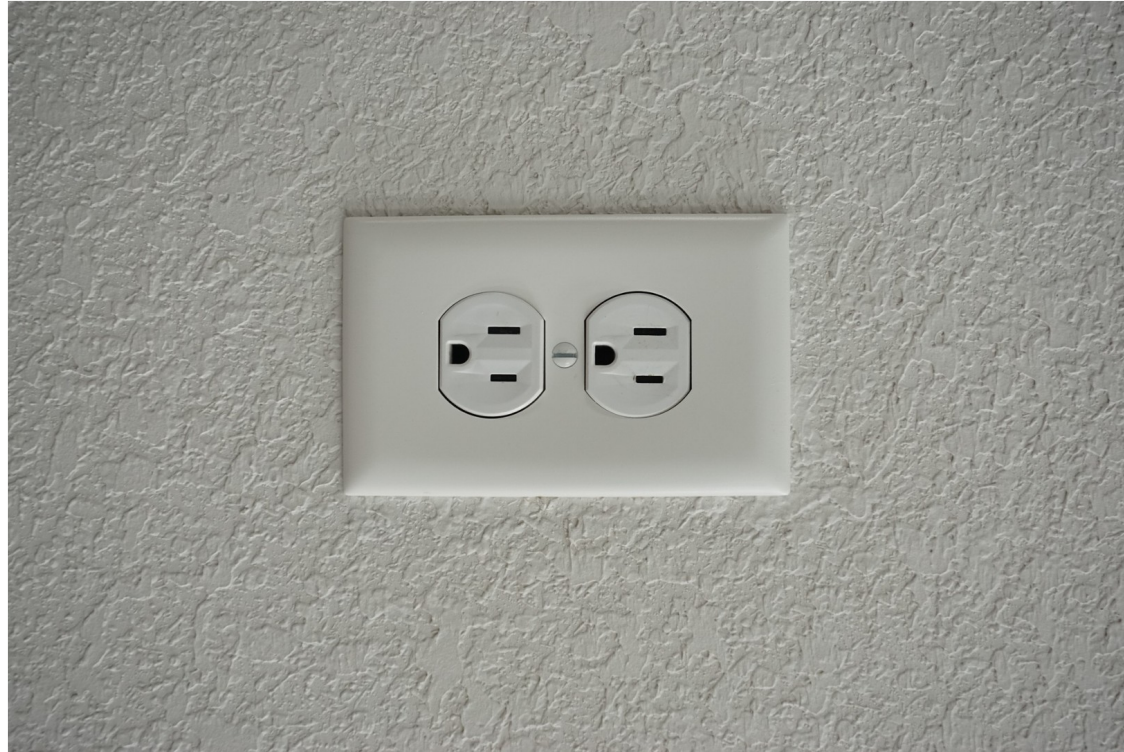
Modules and Packages

```
>>> import greetings
>>> greetings.default_greeting()
Hello, friend! How are you?
```

Modules and packages are pre-written code that can be imported into Python files to add functionality.
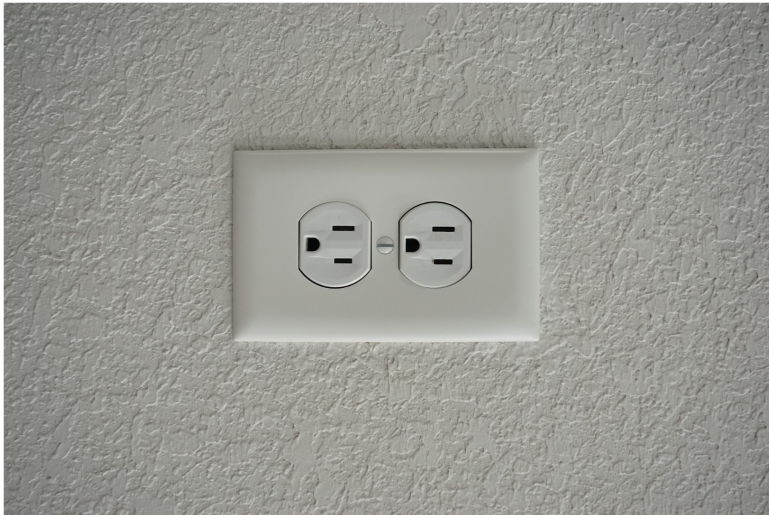
The Python Socket Module

The Python socket module can be used to connect to, and interact with, networking ports on remote servers.

The Python Requests Module

And the Python requests module can be used to perform web requests and obtain data from websites.

The Python Socket Library

Let's learn how to use the socket module to solve some CTF challenges.
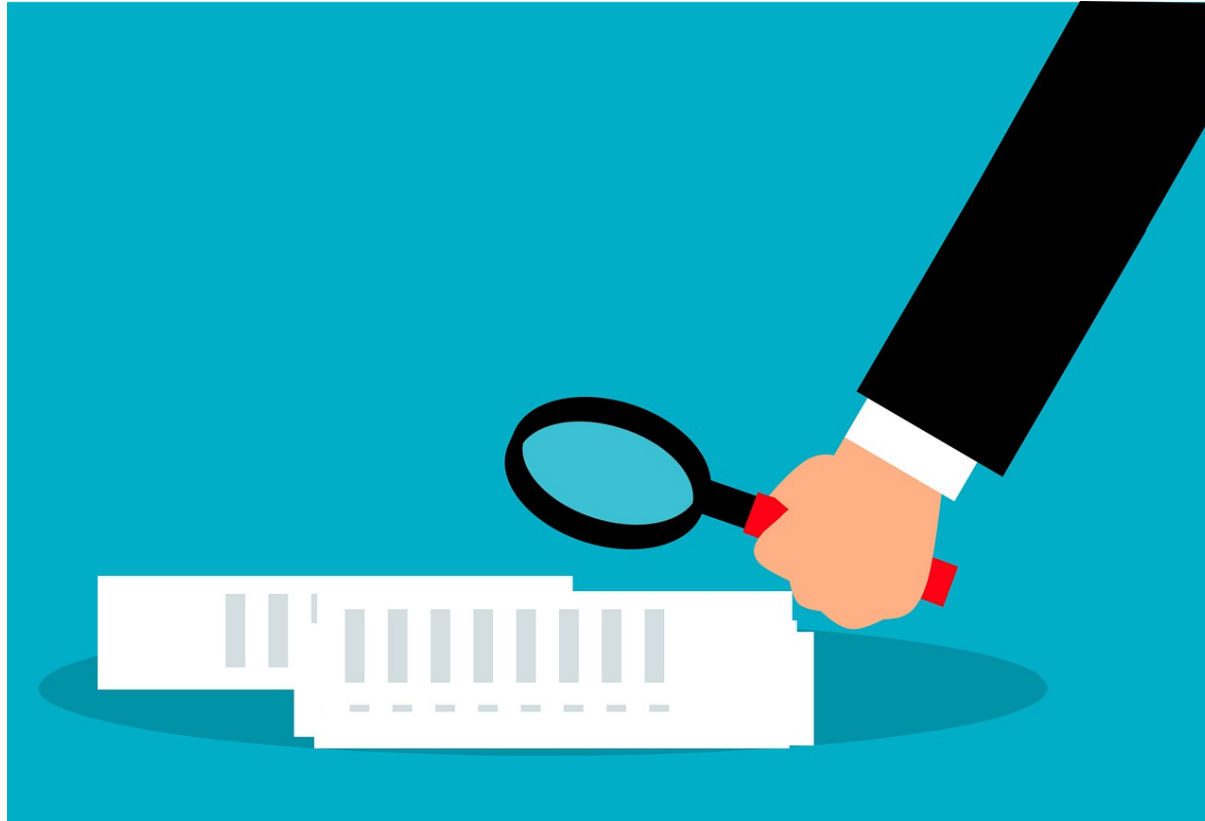
Internet Connected Web VM?

But where can we practice Python with a VM that is (kind of) internet connected? That's where PicoCTF saves the day!

Internet Connected Web VM?

We'll be using picoCTF to practice solving their CTF challenges with Python!

https://play.picoctf.org/practice/challenge/242?category=5&page=2

Summary

Let's review the programming concepts we learned in this workshop:

Modules and Packages

```
>>> import greetings
>>> greetings.default_greeting()
Hello, friend! How are you?
```

Modules and packages are pre-written code that can be imported into Python files to add functionality.

What's Next?

This is the end of the HackerFrogs AfterSchool intro to Python programming classes, but now that we know the basics we can start learning a lot more about coding in this extremely popular programming language!

Extra Credit

Looking for more study material on this workshop's topics?

See this video's description for links to supplemental documents and exercises!

Until Next Time, HackerFrogs!