Intro to Programming (Python)

Assignment 09

# Overview

In this activity, you will learn more about creating classes and modules.

This assignment will include the following tasks:

1. Watch the Module Videos.
2. Research Modules in Python.
3. Review pages about UML.
4. Apply your knowledge.
5. Submit your work.

# Assignment Steps

The following assignment steps will ask you to read about programing, do some programing, and write about what you did.

## Step 1 - Module Videos

Please watch the following Module videos:

* <https://www.youtube.com/playlist?list=PLfycUyp06LG8jQL1HFjnfx6Qv1Ex8qIOD> (external site)

## Step 2 - Research Classes in Python

Search the web for examples of how to use create and use Python classes.

* <http://www.tutorialspoint.com/python/python_modules.htm> (external site)

## Step 3: Review pages about UML

* <http://www.tutorialspoint.com/uml/uml_overview.htm> (external site)
* <http://www.tutorialspoint.com/uml/uml_class_diagram.htm> (external site)
* <http://www.agilemodeling.com/essays/umlDiagrams.htm> (external site)

**Note**: These additional links are to give you a different opinion / viewpoint of the material we are covering. You only need to review these web pages to see what is out there as a resource. You do not need to read them thoroughly. The idea is to expose you to many different ways of looking at these topics and provide you with links to sites you can use in the future

## Step 4 - Apply your knowledge

Now that understand what modules and classes are let's have you make a both of these.

### Step 4.1 Create a Folder

Create a **new sub-folder** **called Assignment09** inside the **\_PythonClass folder**.

### Step 4.2 Create a new Project in PyCharm

Create a new project in PyCharm that uses the \_PythonClass\Assignment09 folder as its location

### Step 4.3 Create a Python Script

Create a python script file within your project.

### Step 4.3 Add Code to the Script

Add code to your script that will perform that assignment’s task using modules and classes. The task this time is to create a new customer application that works like the Employees one we demonstrated in the Module 09 labs. You can use the code samples I included in the Module 09 Python Programming Notes as a guide.

### Step 4.4 Run Your Script

With the script created in its proper location, run the script in **BOTH** PyCharm and a OS command/shell window and optionally capture images of it working on your computer.

***Important:*** *You must upload your python script to Canvas in Assignment’s the Zip file, but placing it on GitHub is only optional.*

## Step 5 - Submit your work

Now place your python script in the Assignment09 folder. Zip this folder into a “.zip” file, then upload the file to the class assignment page as usual.

## Congratulations! You are done!

# Optional Steps:

## Document your knowledge (optional)

If you want to, you can create a Blog showing how you accomplished this. However, this is not required!

## Upload to GitHub (optional)

If you want to, you can upload your file(s) to GitHub, link them to your Blog. However, this is not required!