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10/13/2024

IT FDN 100 A

Mod 1 // Assignment 01

Registering A New Student

Intro

In Module 01, I learned about the basics of the Python programming language, including installing the program onto our machine and how to code and run programs in IDLE and the command shell. Additionally, we learned about programming basics and different standards specific to the Python language, such as script headers and why they are needed, indentations and line lengths, and naming conventions within the code. This module taught me about constants & variables, expressions & comments, and how the print() function works.

I was tasked with creating a basic program that will receive input from a user, including their first and last name, utilizing constants and variables as well as the print() function. Additionally, this script will incorporate the use of naming convention standards that were taught to us in this module.

Creating the Program

To start, I created the script header including the basic information of the script, including the title, description, and change log (Image 1.1).

```
# ------------------------------------------------------------------------------------------ #
# Title: Assignment 01
# Desc: This assignment demonstrates using constants, variables, and print()
# Change Log: (Who, When, What)
#   J Huminski , 10/13/2024, Created Script
# ------------------------------------------------------------------------------------------ #
```

Image 1.1: The header of the script, "Assignment 01," displaying pertinent information

I created the constant "COURSE_NAME" and set it to be 'Python 100.' I then utilized the print() function to display a greeting, utilizing the constant, and then directs the student as to what type

of information is needed from them. This spans multiple lines in the code and does not exceed the Python coding standards of 79 characters. (Image 1.2)

```
COURSE_NAME = 'Python 100'

print("Greetings student and welcome to the " + COURSE_NAME + " Class!")
print("Please enter your first and last name to ensure")
print("you are accruately registered with the course.")
```

Image 1.2: The Constant 'COURSE_NAME' and the greeting

Because we are requesting data from the user, we need to use the input() function to call to the user that information is going to be needed from them. Additionally, I will create a variable called 'student_first_name' and 'student_last_name' that will allow the program to store the information received from the user and display it later in the program. (I got a bit ahead of myself and learned how to create line spacing between two lines by using print("\n")) (Image 1.3)

```
print("\n")

student_first_name = input("Please enter your first name: ") # Requests the user's first name
student_last_name = input("Please enter your last name: ") # Requests the user's last name
```

Image 1.3: The call to action from the user requesting their first & last name

Upon receiving the requested information from the user, I employed the print() function to print the variables 'student_first_name' and 'student_last_name' along with a message that they "have successfully registered" with the constant 'COURSE_NAME.' I used the print() function twice, the first time writing the entire code on one line (which does not adhere to the character limitation standards of the Python language), and the second time including the line continuation character (\) to continue the message onto a new line (Image 1.4)

```
print(student_first_name + " " + student_last_name + " is registered for " + COURSE_NAME)| # Indicates the student has

print("\n")

print(student_first_name + " " + student_last_name + " is registered for " \
      + COURSE_NAME) # Indicates the student has successfully registered
```

Image 1.4: Notifies the user that their input was received and they were registered with the course.

Program Testing

Now that I have completed the code requirements that were requested for the assignment, it is time to test the code to ensure that it is working as intended. First, I am going to use IDLE, since I already have that program open, and run the program there. I will need to save the Python file – I save it to my "Python Course" folder (C:\Users\jesse\Documents\Python Course\Python Scripts) with the title 'Assignment01.py.' (Image 2.1)

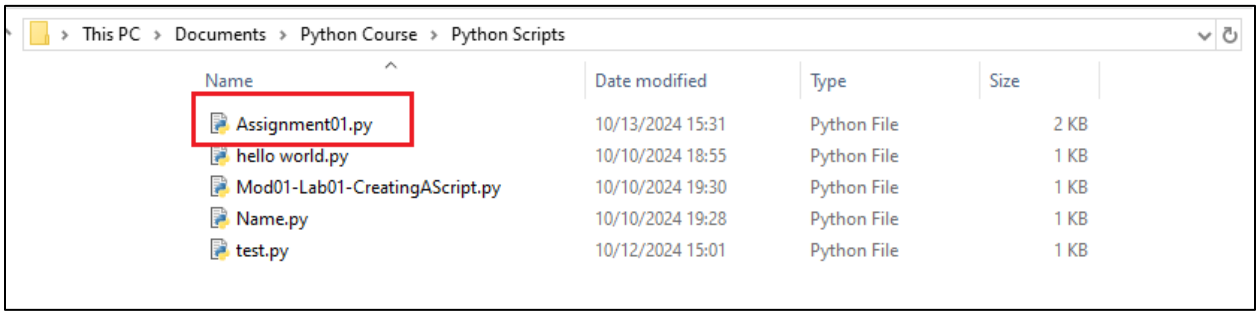

Image 2.1: The Python script saved to my hard drive.

I then run the script in IDLE by pressing the "F5" button on my keyboard. The script starts running and is requesting my information, as intended (Image 2.2)

```
= RESTART: C:/Users/jesse/Documents/Python Course/Python Scripts/Assignment01.py
Greetings student and welcome to the Python 100 Class!
Please enter your first and last name to ensure
you are accruately registered with the course.


Please enter your first name: Jesse
Please enter your last name: Huminski
```

Image 2.2: Running the script in IDLE.

After entering my information and pressing "Enter," the message indicating success is displayed and the program closes (Image 2.3). The success message is displayed twice because I utilized two line of code that display the same message (as shown in Image 1.4).

```
Please enter your first name: Jesse
Please enter your last name: Huminski


Jesse Huminski is registered for Python 100


Jesse Huminski is registered for Python 100
```

Image 2.3: The success message

I then ran the program in Command Shell to ensure that it works properly. (Image 2.4)

```
C:\Users\jesse>cd C:\Users\jesse\Documents\Python Course\Python Scripts

C:\Users\jesse\Documents\Python Course\Python Scripts>python assignment01.py
Greetings student and welcome to the Python 100 Class!
Please enter your first and last name to ensure
you are accruately registered with the course.


Please enter your first name: Jesse
Please enter your last name: Huminski


Jesse Huminski is registered for Python 100


Jesse Huminski is registered for Python 100
```

Image 2.4: The program running in Command Shell.

Summary

The Assignment01 instructs me to use basic functions of the Python language to register a new student with the course. This requires input from the student in the form of variables that are then displayed to the student after the information is received from them properly. A constant was created to relay information that pertains to the name of the course (COURSE_NAME) and is used multiple times throughout the script. Finally, after receiving the information from the user, a success message was printed informing the user that their inputs were received appropriately.