

Directed Activities: After each activity demonstrate your work for the instructor.

Lab 00) Writing your first Python program. Open PyCharm, create a new project (call it 'ProjectLab01' then right click and go to 'New' then 'Python File'. Name it 'Main01'. Write the following in your file and try to run it.

```
print('Hello World!')  
print(10)
```

Lab 01) Printing in Python. In the same 'Main01' file, write Python code that will print the following:

Hello

15

The result of $7 + 10$ (should print 17)

$5 + 10$ (should be printed as is, not after evaluating the expression)

The result of doing integer division when dividing 17 by 3 (should print 5)

Lab 02) Creating variables. Create two variables and assign them values. Use proper and descriptive variable names.

Lab 03) Adding two numbers. In the same file, write Python code that asks the user for two numbers and stores them in the two variables: 'num1' and 'num2', then print the result of adding the two numbers. Your program should look like this when you run it:

What's the first number: <user inputs a number and hits enter>

What's the second number: <user inputs a number and hits enter>

The result of adding the two numbers is: <the output appears here>

Lab 04) Area of a rectangle. Write a Python program that asks the user for two numbers and stores them in the two variables: 'length' and 'width', then write code to calculate the area of the rectangle and store the result in the variable 'result'. Finally, print the area of the rectangle to the user.

Your program should look like this when you run it:

What's the length of the rectangle: <user inputs a number and hits enter>

What's the width of the rectangle: <user inputs a number and hits enter>

The area of the rectangle is: <the output appears here>

Lab 05) Coffee shop. Write code that asks the user for the number of pounds of coffee purchased, then display/print the total cost.

Coffee costs \$10.50 per pound

Upload the files to OAKS under the Assignments section.

Remove any files and folders you created on the desktop. Then empty your recycle bin. Log out of your Cougars account.

Log off of the computer you are using.