First, create a folder on your computer, and call it 'lab1'.

Then, go to the course website: cs.unh.edu/~cs414, and download the starting files hello_you.py, to_fahrenheit.py, and is_palindrome.py. Right-click or Control-click on each file, find your 'lab1' folder, and save it there.

Finally, run IDLE, and open each of the files, and do the following exercises:

1. Here is a program that writes Hello, world!.

```
# My first program!
print 'Hello, world!'
```

Write another program which asks the user for a name, and greets the user. For example, if the user types **Donald**, the program writes

```
Hello, Donald!
```

You will have to use raw_input() to get the string from the user. You will also have to use + (the plus sign) to join various strings into the desired output string.

2. Here is a program that gets a number from the user: a temperature in Farenheit. It prints the temperature in Celsius.

```
fahrenheit = float(raw_input('Temp in Fahrenheit? '))
celsius = (fahrenheit - 32) * 9 / 5
print fahrenheit, 'degrees F = ', celsius, 'degrees C'
```

Write another program which does the reverse. The formula you need is: fahrenheit = celsius * 9 / 5 + 32.

3. Write a program that gets a four-letter string from the user, and prints **True** or **False**, depending on whether that string is *palindromic* or is not (a palindrome is the same forward and backwards).

For example: **ABBA** would print **True**, but **DBBA** and **ABba** would print **False** (BTW, upper and lower-case letters are considered different).

If the string is called word, you will have to use word[0] to access the first letter, and word[-1] to get the last letter. Similarly, word[1] is the second letter, and word[-2] is the second-to last. A four-letter word is palindromic if the first letter equals the last one, and the second equals the second-to-last one. Use == to test if letters are the same. Use and to combine your tests.

Turning in your work:

To complete the lab, go to mycourses.unh.edu, find cs414, and find lab 1. Then click the 'Submit' button, and upload all three files. Submit your work before the end of the lab session, even if you are not finished. You have until midnight to submit the work again, without late penalty.