Assignment 1B

June XX, 2017

Task 1 - If Statements

Now that we've got a handle on boolean expressions, we can start writing code that can make decisions. **Paste the following into IDLE**:

```
x = 10
if x < 5:
    print("x is greater than 5")
else:
    print("x is less than or equal to 5")</pre>
```

Does this do what you expect? Now **fix condition in the if statement** so it really does print the correct information.

Task 2 - List Access

Recall the list from the slides. We will first assign it to a variable:

```
ls = [1, 2, 'hello', 3.4]
```

Now type the following into the interpreter:

```
1s[0] 1s[1] 1s[2] 1s[3] 1s[-1]
```

Do they do what you expect. In particular, what does the last one do?

Task 3 - Length of List

If we have a list:

$$ls = [2, 4, 6, 8, 10]$$

then just like with strings, we can get the length of a list with the len function.

Now complete the following code that prints "hi" if the length of the list "Is" is greater than 3:

Finish off this code by replacing the X and Y with the correct expressions.

Task 4 - Splicing a List

We now look at how we can splice a list. If we have a list:

we can take the middle part of this list using either:

Make sure you understand why that works, and why the first case is problematic if Is had more elements. Finally, we can actually reverse a list easily using: