(Monty) Python More Conditional Statements

Mr. Neat

Comparison

	Java	C++	Python
source code name	.java	.cpp	.py
Object Oriented?	required	optional	optional
output	new Text(" ", , ,) System.out.print()	cout <<	print(" blah, blah")
functions/ methods	methods (bob.hide())	functions (gotoxy(4,3))	functions (str(5))
input	skipped this (complicated)	cin>>	input( )
casting int( )	int(double)	int(double)	int(string)

if - else	if(boolean)
	{
	}
	else
	{
	}
		if(boolean)
		{
		}
		else
		{
		}
			brackets replaced by indenting!

More on if statements…

- Booleans can be the same as in C++ and Java
  - For example, if(x > 5)
- Booleans can also be just numbers
  - if(5), 5 evaluates to true
  - if(-5), -5 evaluates to true
  - if(0), 0 evaluates to false

1812 Lab Revisited

```
year = input("what year was the war of 1812?")
if(year == "1812"):
        print("u r correct")
elif(year == "1813"):
        print("u r one 2 many")
elif(year = "1811"):
        print("one short")
else:
        print("not close, sorry")
```

Note: only one block of code gets executed with this structure

Note: always put an else with this structure to guarantee one and only block of code gets executed in the if statement

Lab 7

Write a calculator app that allows the user to do integer addition, subtraction, multiplication and division. (Note this is a repeat of a C++ lab). Make sure you write the problem back out to the screen.

Example output:
Please enter a number: 3
Please enter an operation: -
Please enter another number: 4

3 – 4 = - 1