

(Monty) Python More Casting

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Comparison

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

Python int Casting Command

- Python int casting is from STRINGS!!! to int's
- To date, we have dealt with C++ and Java casting from doubles to ints (Math.random())
- Recall that the input command returns **STRINGS** from the keyboard. So these must be cast back to integers in order to perform math operations on the numbers.

Python int Casting Command

```
>>>value = input("please enter a number: ")  
please enter a number: 6  
>>> print(value - value)
```

Traceback (most recent call last):

```
File "<pyshell#36>", line 1, in <module>  
    print(value - value)
```

TypeError: unsupported operand type(s) for -
: 'str' and 'str'

Python int Casting Command

```
>>>value = input("please enter a number: ")  
please enter a number: 6  
>>> print(int(value) – int(value))  
0
```

Lab 5

Write a simple calculator program that multiplies 2 integers that have been entered from the keyboard. The equation and answer should be written in the output window.

Example output:

Please enter the first number: 7

Please enter the second number: 8

$7 * 8 = 56$