(Monty) Python Nested for loops

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Comparison

Duthan

_	Java	C++	Python
source code name	.java	.срр	.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!

Comparison

Java C++ Python for loops for(int i=0 ;i<10 ; i++) exact same as Java different

- Same idea as C++ and Java provides a mechanism for repeated actions
- Syntax different from C++ and Java
- Requires a list
- For now our list is going to be provided by a string (recall a string is a list of characters)

- >>> word = "sand"
- >>> for x in word:

for each letter (x) in the string (word) do the following:

This will cause something to occur 4 times since there are 4 letters in the string "sand"

What does this program do?

```
word = "dolphins"
for x in word:
    print("*", end = " ")
```

What if we wanted to make a box? (did this in C++)

```
word = "dolphins"
for xx in word:
    for x in word:
        print("*", end = " ")
        print()
```

Lab 9

Write an app that asks the user for two words (strings). Then the app draws a box that is the width of the number of letters in the first word and is the height of the number of letters in the second word. The box should be made out of the letters of the second word. The first row should be made up of the first letter of the second word. The second row should be made up of the second letter of the second word....

Lab 9

Example output:

Please enter first word: beach

Please enter second word: boys

bbbbb

00000

YYYYY

SSSSS