

Hello World

Exercise

Use the "print" function to print the line "Hello, World!".

script.py

1 print("Hello, World!")

IPython Shell

<script.py> output:
Hello, World!

In [1]: |

Great job!

Solution

Submit

Variables and Types

Exercise

The target of this exercise is to create a string, an integer, and a floating point number. The string should be named `mystring` and should contain the word "hello". The floating point number should be named `myfloat` and should contain the number 10.0, and the integer should be named `myint` and should contain the number 20.

script.py

1 # change this code
2 mystring = "hello"
3 myfloat = 10.0
4 myint = 20
5 # testing code
6 if mystring == "hello":
7 print("String: %s" % mystring)
8 if isinstance(myfloat, float) and myfloat == 10.0:
9 print("Float: %f" % myfloat)
10 if isinstance(myint, int) and myint == 20:
11 print("Integer: %d" % myint)

IPython Shell

<script.py> output:
String: hello
Float: 10.000000
Integer: 20

In [1]: |

Great job!

Solution

Submit

Lists

Exercise

In this exercise, you will need to add numbers and strings to the correct lists using the "append" list method. You must add the numbers 1,2, and 3 to the "numbers" list, and the words 'hello' and 'world' to the strings variable.

You will also have to fill in the variable `second_name` with the second name in the names list, using the brackets operator `[]`.

Note that the index is zero-based, so if you want to access the second item in the list, its index will be 1.

script.py	IPython Shell
<pre>1 numbers = [] 2 strings = [] 3 names = ["John", "Eric", "Jessica"] 4 5 numbers.append(1) 6 numbers.append(2) 7 numbers.append(3) 8 # write your code here 9 second_name = names[1] 10 11 12 # this code should write out the filled arrays 13 # and the second name in the names list (Eric). 14 print(numbers) 15 print(strings) 16 print("The second name on the names list is %s"</pre>	<pre><script.py> output: [1, 2, 3] [] The second name on the names list is Eric In [1]: </pre>
Great Job!	
Solution	Submit

Basic Operators

Exercise

The target of this exercise is to create two lists called `x_list` and `y_list`, which contain 10 instances of the variables `x` and `y`, respectively. You are also required to create a list called `big_list`, which contains the variables `x` and `y`, 10 times each, by concatenating the two lists you have created.

script.py	IPython Shell
<pre>1 x = object() 2 y = object() 3 4 # TODO: change this code 5 x_list = [x] * 10 6 y_list = [y] * 10 7 8 9 big_list = x_list + y_list 10 print("x_list contains %d objects" % len(x_list)) 11 print("y_list contains %d objects" % len(y_list)) 12 print("big_list contains %d objects" % len(big_list)) 13 14 # testing code</pre>	<pre><script.py> output: x_list contains 10 objects y_list contains 10 objects big_list contains 20 objects Almost there... Great! In [1]: </pre>
Good work!	
Solution	Submit

String Formatting

Exercise

You will need to write a format string which prints out the data using the following syntax: **Hello John Doe. Your current balance is \$53.44.**

script.py

```
1 data = ("John", "Doe", 53.44)
2 format_string = "Hello %s %s. Your current
  balance is $%. "
3
4 print(format_string % data)
```

IPython Shell

```
<script.py> output:
  Hello John Doe. Your current balance is $53.44.

In [1]: |
```

Great work!

Solution

Submit

Basic String Operations

Exercise

Try to fix the code to print out the correct information by changing the string.

script.py

```
1 s = "Strings are awesome!"
2 # Length should be 20
3 print("Length of s = %d" % len(s))
4
5 # First occurrence of "a" should be at index 8
6 print("The first occurrence of the letter a =
  %d" % s.index("a"))
7
8 # Number of a's should be 2
9 print("a occurs %d times" % s.count("a"))
10
11 # Slicing the string into bits
12 print("The first five characters are '%s'" % s[
  :5]) # Start to 5
13 print("The next five characters are '%s'" % s[5
  :10]) # 5 to 10
14 print("The last five characters are '%s'" % s[-5:
  :]) # Last 5 to end
```

IPython Shell

```
Length of s = 20
The first occurrence of the letter a = 8
a occurs 2 times
The first five characters are 'Strin'
The next five characters are 'gs ar'
The thirteenth character is 'a'
The characters with odd index are 'tig r wsm!'
The last five characters are 'some!'
String in uppercase: STRINGS ARE AWESOME!
String in lowercase: strings are awesome!
String starts with 'Str'. Good!
String ends with 'ome!'. Good!
Split the words of the string: ['Strings', 'are',
  'awesome!']
```

Great work!

Solution

Submit