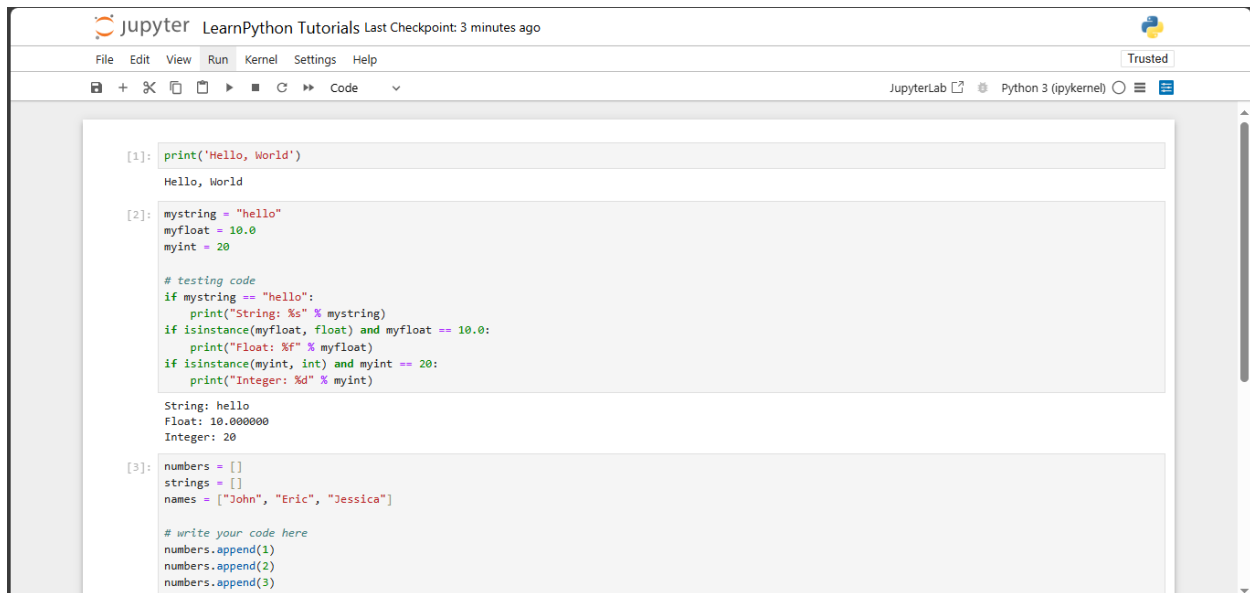


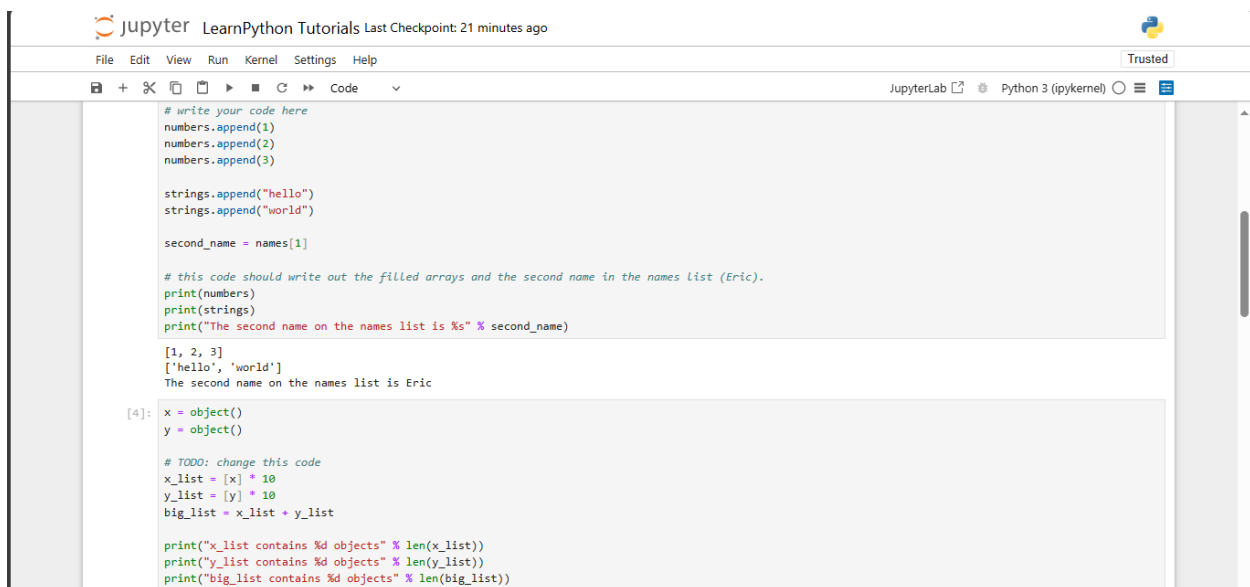
Learn Python Tutorials Python Code Jupyter Notebook

Lojain Idris



The image shows the JupyterLab interface with the title 'LearnPython Tutorials' and a 'Last Checkpoint: 3 minutes ago' status. The interface includes a menu bar (File, Edit, View, Run, Kernel, Settings, Help) and a toolbar with icons for file operations and execution. The notebook contains three code cells:

```
[1]: print('Hello, World')  
Hello, World  
  
[2]: mystring = "hello"  
myfloat = 10.0  
myint = 20  
  
# testing code  
if mystring == "hello":  
    print("String: %s" % mystring)  
if isinstance(myfloat, float) and myfloat == 10.0:  
    print("Float: %f" % myfloat)  
if isinstance(myint, int) and myint == 20:  
    print("Integer: %d" % myint)  
  
String: hello  
Float: 10.000000  
Integer: 20  
  
[3]: numbers = []  
strings = []  
names = ["John", "Eric", "Jessica"]  
  
# write your code here  
numbers.append(1)  
numbers.append(2)  
numbers.append(3)
```



The image shows the continuation of the JupyterLab interface, with the title 'LearnPython Tutorials' and a 'Last Checkpoint: 21 minutes ago' status. The notebook continues with the code from the previous cell:

```
# write your code here  
numbers.append(1)  
numbers.append(2)  
numbers.append(3)  
  
strings.append("hello")  
strings.append("world")  
  
second_name = names[1]  
  
# this code should write out the filled arrays and the second name in the names list (Eric).  
print(numbers)  
print(strings)  
print("The second name on the names list is %s" % second_name)  
  
[1, 2, 3]  
['hello', 'world']  
The second name on the names list is Eric  
  
[4]: x = object()  
y = object()  
  
# TODO: change this code  
x_list = [x] * 10  
y_list = [y] * 10  
big_list = x_list + y_list  
  
print("x_list contains %d objects" % len(x_list))  
print("y_list contains %d objects" % len(y_list))  
print("big_list contains %d objects" % len(big_list))
```

```
Jupyter LearnPython Tutorials Last Checkpoint: 21 minutes ago
File Edit View Run Kernel Settings Help Trusted
JupyterLab Python 3 (ipykernel)

# testing code
if x_list.count(x) == 10 and y_list.count(y) == 10:
    print("Almost there...")
if big_list.count(x) == 10 and big_list.count(y) == 10:
    print("Great!")

x_list contains 10 objects
y_list contains 10 objects
big_list contains 20 objects
Almost there...
Great!

[5]: data = ("John", "Doe", 53.44)
     format_string = "Hello %s %s. Your current balance is $%s."
     print(format_string % data)

Hello John Doe. Your current balance is $53.44.

[6]: s = "Strings are awesome!"
     # Length should be 20
     print("Length of s = %d" % len(s))

     # First occurrence of "a" should be at index 8
     print("The first occurrence of the letter a = %d" % s.index("a"))

     # Number of a's should be 2
     print("a occurs %d times" % s.count("a"))

     # Slicing the string into bits
     print("The first five characters are '%s'" % s[:5]) # Start to 5
```

```
Jupyter LearnPython Tutorials Last Checkpoint: 21 minutes ago
File Edit View Run Kernel Settings Help Trusted
JupyterLab Python 3 (ipykernel)

# Slicing the string into bits
print("The first five characters are '%s'" % s[:5]) # Start to 5
print("The next five characters are '%s'" % s[5:10]) # 5 to 10
print("The thirteenth character is '%s'" % s[12]) # Just number 12
print("The characters with odd index are '%s'" % s[1:2]) # (0-based indexing)
print("The last five characters are '%s'" % s[-5:]) # 5th-from-Last to end

# Convert everything to uppercase
print("String in uppercase: %s" % s.upper())

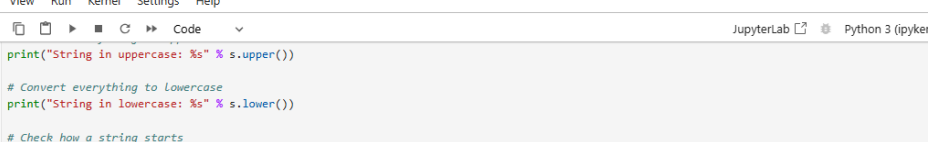
# Convert everything to lowercase
print("String in lowercase: %s" % s.lower())

# Check how a string starts
if s.startswith("Str"):
    print("String starts with 'Str'. Good!")

# Check how a string ends
if s.endswith("ome!"):
    print("String ends with 'ome!'. Good!")

# Split the string into three separate strings,
# each containing only a word
print("Split the words of the string: %s" % s.split(" "))

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 image shows a JupyterLab window titled "LearnPython Tutorials Last Checkpoint: 22 minutes ago". The interface includes a top menu bar with "File", "Edit", "View", "Run", "Kernel", "Settings", and "Help". On the right, there is a "Trusted" status indicator and a "Python 3 (ipykernel)" label. The main area contains a code editor with the following Python code:

```
print("String in uppercase: %s" % s.upper())

# Convert everything to lowercase
print("String in lowercase: %s" % s.lower())

# Check how a string starts
if s.startswith("Str"):
    print("String starts with 'Str'. Good!")

# Check how a string ends
if s.endswith("ome!"):
    print("String ends with 'ome!'. Good!")

# Split the string into three separate strings,
# each containing only a word
print("Split the words of the string: %s" % s.split(" "))
```

Below the code editor, the output is displayed:

```
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!']
```