

- Creating a String

The screenshot shows a Jupyter Notebook interface with a file browser on the left and a code editor on the right. The file browser shows a directory named 'Group5_Garcia_Activity' containing files like 'my_directory', 'data.csv', 'Garcia_Add...', 'new finals.i...', 'sampledata...', 'testing.ipynb', and 'testing2.ipynb'. The 'new finals.i...' file is selected. The code editor shows a single cell with the following code:

```
[1]: my_string = "Hello, world!"
     print(my_string)
```

The output of the cell is 'Hello, world!'.

- Accessing Characters in the String

The screenshot shows a Jupyter Notebook interface with a file browser on the left and a code editor on the right. The file browser shows the same directory as the previous screenshot, with 'new finals.i...' selected. The code editor shows a single cell with the following code:

```
[1]: my_string = "Hello, world!"
     print(my_string)
```

The output of the cell is 'Hello, world!'.

[3]: my_string = "Hello, world!"

```
# Accessing the first character
first_char = my_string[0] # 'H'
print("First character:", first_char)

# Accessing the second character
second_char = my_string[1] # 'e'
print("Second character:", second_char)

# Accessing the last character
last_char = my_string[-1] # '!'
print("Last character:", last_char)

# Accessing characters using slicing
substring = my_string[7:12] # 'world'
print("Substring:", substring)

# Accessing every other character
every_other_char = my_string[::2] # 'Hlo ol!'
print("Every other character:", every_other_char)

# Accessing characters in reverse order
reverse_string = my_string[::-1] # '!dlrow ,olleH'
print("Reversed string:", reverse_string)
```

The output of the cell is:

```
First character: H
Second character: e
Last character: !
Substring: world
Every other character: Hlo ol!
Reversed string: !dlrow ,olleH
```

- Removing Space from a String

```
[4]: my_string = "Hello, world!"
     no_space_string = my_string.replace(" ", "")
     print(no_space_string)

Hello,world!
```

- Python String Methods

```
[5]: #str.upper(): Converts all characters in a string to uppercase.
     my_string = "hello, world!"
     print(my_string.upper()) # Output: HELLO, WORLD!

#str.lower(): Converts all characters in a string to lowercase.
     my_string = "Hello, World!"
     print(my_string.lower()) # Output: hello, world!

#str.capitalize(): Converts the first character of a string to uppercase, and the rest to lowercase.
     my_string = "hello, world!"
     print(my_string.capitalize()) # Output: Hello, world!

#str.strip(): Removes leading and trailing whitespace characters from a string.
     my_string = "  Hello, world!  "
     print(my_string.strip()) # Output: Hello, world!

#str.replace(): Replaces occurrences of a substring with another substring.
     my_string = "Hello, world!"
     new_string = my_string.replace("world", "Python")
     print(new_string) # Output: Hello, Python!

#str.split(): Splits a string into a list of substrings based on a delimiter.
     my_string = "apple,banana,orange"
     fruits = my_string.split(",")
     print(fruits) # Output: ['apple', 'banana', 'orange']

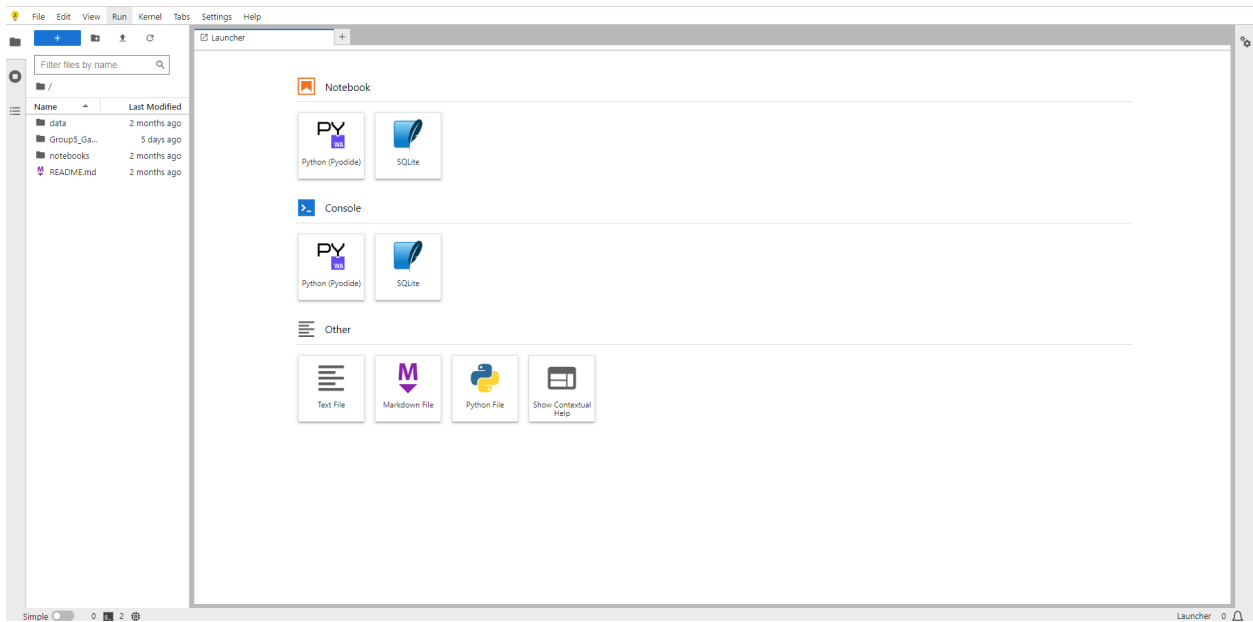
#str.join(): Joins elements of a sequence into a string, using the string as a delimiter.
     fruits = ['apple', 'banana', 'orange']
     my_string = ",".join(fruits)
     print(my_string) # Output: apple,banana,orange

#str.startswith() and str.endswith(): Checks if a string starts or ends with a specified substring.
     my_string = "Hello, world!"
     print(my_string.startswith("Hello")) # Output: True
     print(my_string.endswith("world")) # Output: False

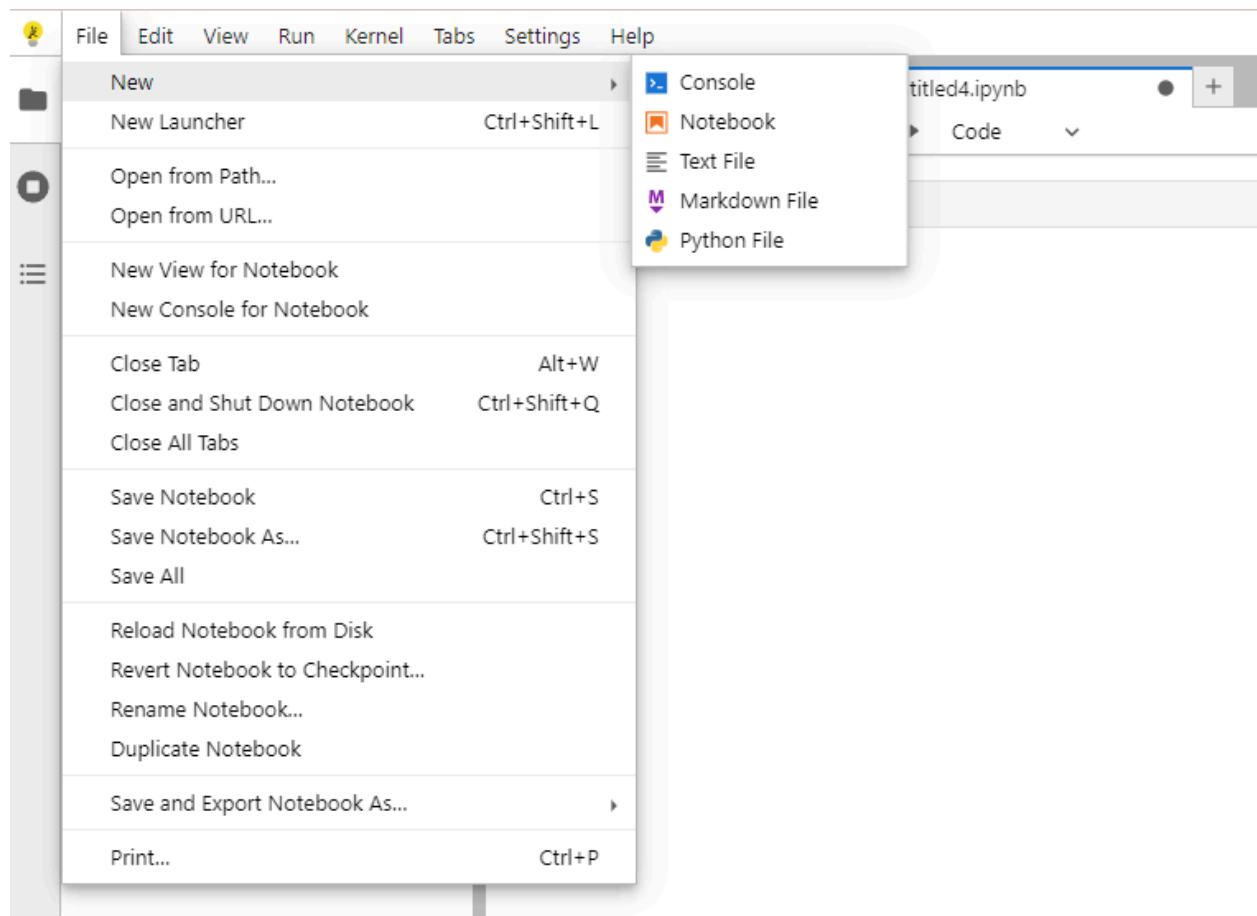
HELLO, WORLD!
hello, world!
Hello, world!
Hello, world!
Hello, Python!
['apple', 'banana', 'orange']
apple,banana,orange
True
False
```

Python and jupyter notebook

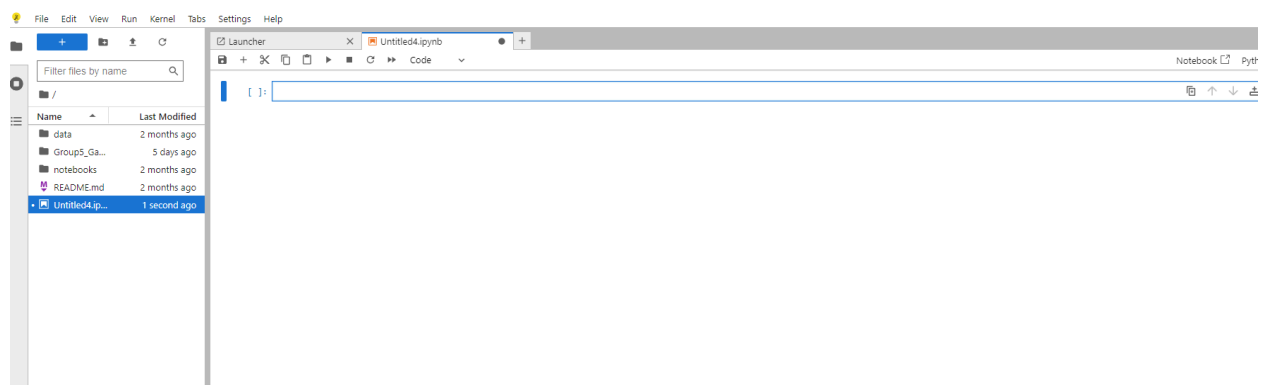
- Launch Jupyter Notebook



- Open a notebook file



- Launch Jupyter Notebook



- Start writing a Jupyter Notebook

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[1]: print("hello")

hello

[]: |