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CS3C

Creating a String:
Using single quotes (') or double quotes (""), you can represent characters in Python strings. Strings can have spaces, special characters, numbers, and letters in them.

Example:
```
my_string_single_quotes = 'Hello, World!'
my_string_double_quotes = "Python is awesome!"
```

Accessing Characters in the String:
Indexing allows you to retrieve individual characters within a string. For the initial character, indexing begins at 0, and you can access characters from the end of the string by using negative indexing.

Example:
```
my_string = "Hello, World!"
print(my_string[0])
 # Output:
H
print(my_string[-1])
 # Output:
!
```

Removing Space from a String:
There are multiple ways in Python to eliminate spaces from strings. The strip() method, which eliminates leading and trailing whitespace characters from a string, is one popular technique.

Example:
```
my_string = "    Hello, World!    "
trimmed_string = my_string.strip()
print(trimmed_string)
 # Output:
Hello, World!
```

Python String Methods:
Python offers many different string manipulation and working methods. Lower(), upper(), replace(), split(), join(), find(), startswith(), endswith(), and many more are examples of typical techniques.

Example:
```
my_string = "Hello, World!"
print(my_string.lower())
```

```
 # Output:
hello, world!
print(my_string.replace('H', 'J'))
  # Output:
Jello, World!
```

Python and jupyter notebook

Launch Jupyter Notebook

Open a terminal or command prompt, type jupyter notebook, and hit Enter to launch the Jupyter Notebook server. This will launch the Jupyter Notebook dashboard in a new browser window.

Open a notebook file

Upon starting the Jupyter Notebook server, navigate to the directory containing your notebook file (.ipynb) and click on it to open it in Jupyter Notebook.

Launch Jupyter Notebook

To write code and text in a Jupyter Notebook, use the "+" button in the toolbar and select "Code" or "Markdown" from the dropdown menu on the toolbar. This will allow you to begin writing in Python.

Start writing a Jupyter Notebook

To create Python code, open a blank code cell and select the cell type (code or markdown) and press the "+" button. Type your code in the cells and press Shift + Enter to run Python code cells. The result will appear below the cell. After writing, press Shift + Enter to render Markdown cells.