In [ ]:
```
#Python String Methods
```

In [1]:
```
#String Concatenation and Slicing

# String concatenation

first_name = "John"
last_name = "Doe"
full_name = first_name + " " + last_name
print("Full Name:", full_name)

# String slicing

sliced_string = full_name[0:4]  # Slices from index 0 to 3 (4 is excluded)
print("Sliced part:", sliced_string)
```

```
Full Name: John Doe
Sliced part: John
```

In [2]:
```
#Finding Substrings and Counting Occurrences

sentence = "Hello, welcome to Python programming."

# Finding a substring
position = sentence.find("Python")
print("Position of 'Python':", position)

# Counting occurrences of a character
count_o = sentence.count("o")
print("Number of 'o' characters:", count_o)
```

```
Position of 'Python': 18
Number of 'o' characters: 5
```

In [3]:
```
#Changing Case (Uppercase, Lowercase, Title Case)

text = "python is Fun!"

# Convert to uppercase
upper_text = text.upper()
print("Uppercase:", upper_text)

# Convert to lowercase
lower_text = text.lower()
print("Lowercase:", lower_text)

# Convert to title case
title_text = text.title()
print("Title Case:", title_text)
```

```
Uppercase: PYTHON IS FUN!
Lowercase: python is fun!
Title Case: Python Is Fun!
```

In [4]:
```
#Removing Whitespace

text_with_spaces = "   Hello, Python!   "

# Remove spaces from both sides
stripped_text = text_with_spaces.strip()
print("Stripped:", stripped_text)

# Remove spaces from the left side
left_stripped = text_with_spaces.lstrip()
print("Left Stripped:", left_stripped)

# Remove spaces from the right side
right_stripped = text_with_spaces.rstrip()
print("Right Stripped:", right_stripped)
```

```
Stripped: Hello, Python!
Left Stripped: Hello, Python!
Right Stripped:    Hello, Python!
```

In [5]:
```
#Splitting Strings

sentence = "Python,Java,C++,JavaScript"

# Split the string by commas
languages = sentence.split(",")
print("List of languages:", languages)

# Split a sentence by spaces
another_sentence = "Hello world this is Python"
words = another_sentence.split(" ")
print("List of words:", words)
```

```
List of languages: ['Python', 'Java', 'C++', 'JavaScript']
List of words: ['Hello', 'world', 'this', 'is', 'Python']
```

In [ ]:
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