

```
In [1]: # 1. String Slicing
string = "Learn Python Programming"
word_positive = string[6:12]
print(word_positive)
word_negative = string[-17:-11]
print(word_negative)
```

Python  
ython

```
In [2]: # 2. Find the Length
string = "Welcome to Python!"
length = len(string)
print(length)
```

18

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In [3]: # 3. Change Case
string = "python IS Awesome"
uppercase = string.upper()
print(uppercase)
lowercase = string.lower()
print(lowercase)
capitalized = string.capitalize()
print(capitalized)
```

PYTHON IS AWESOME  
python is awesome  
Python is awesome

```
In [4]: # 4. Remove Whitespace
string = "    Clean this string    "
cleaned_string = string.strip()
print(cleaned_string)
```

Clean this string

```
In [5]: # 5. Substring Replacement
sentence = "I love Java programming."
new_sentence = sentence.replace("Java", "Python")
print(new_sentence)
```

I love Python programming.

```
In [6]: # 6. Check Substring
string = "Learn Python Programming"
substring = "Python"
if substring in string:
    print(f"The word '{substring}' is present in the string.")
else:
    print(f"The word '{substring}' is not present in the string.")
```

The word 'Python' is present in the string.

```
In [7]: # 7. Startswith and Endswith
filename = "report.pdf"
starts_with = filename.startswith("report")
print(starts_with)
ends_with = filename.endswith(".pdf")
print(ends_with)
```

True  
True

```
In [8]: # 8. Find Substring Position
string = "Welcome to Python programming"
position = string.find("to")
print(position)
```

8

```
In [9]: # 9. Alphabet or Number Check
string = "12345abc"
if string.isalpha():
    print("The string contains only alphabetic characters.")
elif string.isdigit():
    print("The string contains only numeric characters.")
else:
    print("The string contains both alphabetic and numeric characters.")
```

The string contains both alphabetic and numeric characters.

```
In [10]: # 10. Extract Substring with Step
string = "abcdefg"
substring_with_step = string[::2]
print(substring_with_step)
```

aceg

```
In [ ]:
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