



PYTHON BOOTCAMP

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STRING MANIPULATION



String Creation:

- Single Quote (one liner)
- Double Quote (one liner)
- Triple Quote (multi liner)

```
4  single_quote = 'Hello'
5  double_quote = "World"
6  triple_quote = """Multi-line
7  string"""
```

STRING MANIPULATION



String indexing and slicing:

- Indexing: number(position) for each character
- Slicing: grabbing multiple characters [start:stop:step]

```
10  text = "Python Programming"
11
12  print(text[0])      # (first character)
13  print(text[-1])     # (last character)
14  print(text[0:6])    # (slice 0 to 5)
15  print(text[:6])     # (from start to 5)
16  print(text[7:])     # (7 to end)
```

STRING MANIPULATION



String Formatting:

- f-string
- str.format()
- %-formatting

```
29  name = "John Doe"
30  age = 30
31
32  message_1 = f"My name is {name} and I am {age} years old."      # f-strings
33  message_2 = "My name is {} and I am {} years old".format(name, age) # str.format()
34  message_3 = "My name is %s and I am %d years old." % (name, age)  # %-formatting
35
36  print(message_1)
37  print(message_2)
38  print(message_3)
```

STRING MANIPULATION



Exercise:

1. Build a simple text analyzer that counts words, characters, and sentences in a given text.

```
text = """Python is a powerful programming language. It's easy to learn  
and versatile!
```

```
You can use Python for web development, data science, and  
automation. The syntax is clean and readable.
```

```
This makes Python perfect for beginners and experts alike."""
```