

Python Strings – Practice Set

This practice set is based on the topics we've covered so far:

- Strings in Python
- String Slicing and Indexing
- String Methods and Functions
- String Formatting and f-Strings
- Strings (2 questions)
- String Manipulation

Use these exercises to strengthen your understanding of strings and become confident in manipulating them.

1. Basic String Operations

1. Create a string variable `name` with your full name. Print:
 1. The first character
 2. The last character
 3. The length of the string
 2. Concatenate two strings: `"Hello"` and `"World"` with a space in between.
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2. String Slicing and Indexing

1. Given `text = "Python Programming"`, do the following:
 1. Print the first 6 characters
 2. Print the last 6 characters

3. Print every second character from the string
 2. Reverse the string `text` using slicing.
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3. String Methods and Functions

1. Take the string `" i love python programming "` and:
 1. Remove extra spaces from both ends
 2. Convert it to title case
 3. Count how many times `"o"` appears
 2. Check if the string `"123abc"` is alphanumeric.
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4. String Formatting and f-Strings

1. Using `format()`, create a sentence:
`"My name is John and I am 25 years old."`
by passing `"John"` and `25` as variables.
 2. Do the same using **f-strings**.
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5. String Manipulation Challenges

1. Given `sentence = "Coding in Python is fun"`, replace `"fun"` with `"awesome"` and print it.
 2. Find the index of the word `"Python"` in `sentence`.
 3. Convert the entire `sentence` to uppercase and print it.
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6. Bonus Questions

1. Write a program that counts how many vowels are in a given string.
2. Take a user input string and check if it is a palindrome (same forwards and backwards).