

PYTHON

- **PYTHON STRINGS QUESTIONS**

➤ Basic Level Questions

1. Create a string "Hello, World!" and print its length.
 2. Extract "World" from "Hello, World!".
 3. Convert "python programming" to uppercase.
 4. Convert "HELLO WORLD" to lowercase.
 5. Replace "World" with "Python" in "Hello, World!".
 6. Concatenate the strings "Hello" and "Python" with a space in between.
 7. Check if the word "Python" is present in the string "I am learning Python.".
 8. Find the index of "o" in "Hello, World!".
 9. Count the occurrences of "l" in "Hello, World!".
 10. Reverse the string "Python" using slicing.
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➤ Intermediate Level Questions

11. Remove whitespace from both ends of " Python ".
 12. Split "apple,banana,grape" into a list of words.
 13. Join the list ["Python", "is", "fun"] into a single string with spaces.
 14. Check if "Python123" is alphanumeric.
 15. Check if "12345" contains only digits.
 16. Capitalize only the first letter of "python is awesome!".
 17. Convert "this is a sentence" to title case (each word starts with a capital letter).
 18. Format a string to include variables: "My name is {name} and I am {age} years old." with "John" and 25.
 19. Swap uppercase and lowercase in "Hello World!".
 20. Find and replace "is" with "was" in "This is a simple test.".
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➤ Advanced Level Questions

21. Extract all vowels from "Beautiful day in the neighborhood" using list comprehension.
22. Reverse words in "Python is fun" (output: "fun is Python").
23. Find the most frequent character in "mississippi".
24. Check if "madam" is a palindrome.
25. Remove all special characters from "Hello@Python#123!" and keep only letters and numbers.
26. Write a function to find the longest word in "The quick brown fox jumps over the lazy dog".
27. Count the occurrences of each word in "apple banana apple orange banana apple".
28. Extract all numeric values from "abc123xyz456" and return as a list [123, 456].
29. Check if two strings are anagrams ("listen" and "silent" should return True).
30. Compress a string by counting repeated characters ("aaabbcddd" → "a3b2c1d3").