Python String Practice Questions

1. Write a Python program that asks the user to input a string and then outputs the string in reverse.
2. Given a string "Hello, World!", extract the substring "World" using slicing.
3. Write a Python program that counts the number of vowels in a given string.
4. Convert a given string to all uppercase and then replace all occurrences of the letter 'A' with the character '@'.
5. Create a string using f-string formatting that includes a person's name, age, and city of residence.
6. Format a float number 123.456789 to display only two decimal places.
7. Write a Python program that capitalizes the first letter of every word in a sentence.
8. Check if a given string is a palindrome (reads the same backward as forward).
9. Write a program that checks if a substring exists within a string.
10. Write a Python program that finds all occurrences of the letter 'a' in the string "banana" and prints their positions.
11. Given a string "apple, banana, cherry", split it into a list of words.
12. Join a list of words ["Python", "is", "fun"] into a single string separated by spaces.
13. Write a program to compare two strings lexicographically and determine which one comes first alphabetically.

14. Check if two strings are anagrams of each other (contain the same letters in different orders).
15. Write a program to remove all the spaces from a given string.
16. Given a string containing special characters like newline (\n), tab (\t), and backslash (\\), escape the characters properly.
17. Write a Python program that replaces all occurrences of a substring within a string with another substring.
18. Write a program to count the number of words in a string.
19. Write a program to remove duplicate characters from a string while preserving the order of characters.
20. Find the longest word in a given string.
21. Write a program that splits a string by commas and then sorts each word in alphabetical order.
22. Write a program that removes punctuation from a string.
23. Write a Python program that checks if a string contains only alphabets (no digits or special characters).
24. Write a program to find the frequency of each character in a string.
25. Write a Python program to convert a string from snake_case to camelCase.
26. Write a program that concatenates two strings without using the + operator.
27. Write a program to convert all spaces in a string to underscores.
28. Write a Python program that repeats a string n times where n is provided by the user.

29. Write a program that takes a string and removes the first and last characters.
30. Write a Python program that checks if a string starts and ends with the same character.
31. Write a Python program that counts how many times each vowel appears in a given string.
32. Write a program to find the shortest word in a string.
33. Write a Python program that finds and prints the longest repeated substring in a given string.
34. Write a program that checks if a string contains any numeric characters.
35. Write a Python program to replace every second character of a string with *.