String Functions:

- 1. len(): Returns the length (number of characters) of a string.
- 2. upper(): Converts a string to uppercase.
- 3. lower(): Converts a string to lowercase.
- 4. capitalize(): Capitalizes the first character of a string.
- 5. title(): Converts the first character of each word in a string to uppercase.
- 6. strip(): Removes leading and trailing whitespace characters from a string.
- 7. replace(): Replaces occurrences of a substring with another substring.
- 8. count(): Counts the occurrences of a specific substring in a string.
- 9. find(): Finds the index of the first occurrence of a substring in a string.
- 10. index(): Finds the index of the first occurrence of a substring (similar to find()).
- 11. startswith(): Checks if a string starts with a specific substring.
- 12. endswith(): Checks if a string ends with a specific substring.
- 13. split(): Splits a string into a list of substrings based on a delimiter.
- 14. join(): Joins elements of an iterable into a single string using a specified separator.
- 15. isalpha(): Returns True if all characters in the string are alphabetic, otherwise False.
- 16. isdigit(): Returns True if all characters in the string are digits, otherwise False.
- 17. isnumeric(): Returns True if all characters in the string are numeric, otherwise False.
- 18. islower(): Checks if the given string is in lowercase
- 19. isupper(): Checks if the given string is in uppercase
- 20. isalnum(): Returns True if all characters in the string are alphanumeric, otherwise False.
- 21. isspace(): Returns True if all characters in the string are whitespace characters, otherwise False.
- 22. startswith(): Checks if a string starts with a specific substring.
- 23. endswith(): Checks if a string ends with a specific substring.

Questions

- Given the string text = "Hello, World!", use the len() function to find the length of the string.
- 2. Create a string sentence = "I am learning Python programming." and use the upper() function to convert it to uppercase.
- 3. Using the count() function, find out how many times the letter "a" appears in the string "banana".
- 4. Given the string message = "Welcome to Python!", use the strip() function to remove leading and trailing spaces.
- 5. Create a string word = "excellent" and use the replace() function to replace "cell" with "cent".

- 6. Using the find() function, determine the index of the first occurrence of the substring "dog" in the string "The quick brown fox jumps over the lazy dog.".
- 7. Given the string text = "one, two, three, four, five", use the split() function to split it into a list of words.
- 8. Create a string sentence = "Python is fun!" and use the startswith() function to check if it starts with the word "Python"
- 9. Using the join() function, combine the elements of the list words = ["Hello", "world", "Python"] into a sentence.
- 10. Given the string phrase = "Hello there, how are you?", use the capitalize() function to capitalize the first letter of the sentence.x.