

1. Create a string variable named `my_string` and assign it the value `"qwertyuiopasdfghjkl asdfghjkzxcvbnm"`.
2. Print the third character of `my_string` using indexing.
3. Print the last character of `my_string` using indexing.
4. Print the first five characters of `my_string` using slicing.
5. Print the last five characters of `my_string` using slicing.
6. Print every other character of `my_string` using slicing.
7. Print `my_string` in reverse using slicing.
8. Print the first two characters of `my_string` using slicing.
9. Print the characters of `my_string` from index 7 to index 12 (inclusive) using slicing.
10. Print the last three characters of `my_string` using slicing.
11. Print the characters of `my_string` in reverse order using slicing.
12. Print every third character of `my_string` starting from the second character using slicing.
13. Create a new string variable named `new_string` and assign it the value `"learning is fun"`. Concatenate `my_string` and `new_string` using the `+` operator and print the resulting string.
14. Create a string variable named `my_string` and assign it the value `"Python is easy to learn!"`.
 - a. Print the length of `my_string`.
 - b. Convert `my_string` to uppercase and print it.
 - c. Replace the word `"easy"` in `my_string` with the word `"powerful"` and print the resulting string.
15. Create a string variable named `email` and assign it the value `"jane.doe@example.com"`.
 - a. Print the username (i.e., `"jane.doe"`) by slicing the string.
 - b. Print the domain (i.e., `"example.com"`) by slicing the string.
 - c. Replace the domain with `"mycompany.com"` and print the resulting email address.
16. Create a string variable named `my_string` and assign it the value `"Python is fun"`.
 - a. Check if the word `"is"` is in `my_string` and print the result.
 - b. Check if the word `"Java"` is not in `my_string` and print the result.

- c. Split `my_string` into a list of words and print the result.
17. Create a string variable named `my_string` and assign it the value "Programming is fun!".
- Use string interpolation to replace "fun" with "awesome" and print the resulting string.
 - Use the `split` method to split `my_string` into a list of words and print the result.
 - Use the `join` method to concatenate the list of words into a single string using a space as a separator and print the resulting string.
18. Create a string variable named `my_string` and assign it the value "This is a test sentence.".
- Use the `count` method to count the number of occurrences of the letter "e" in `my_string` and print the result.
 - Use the `find` method to find the index of the first occurrence of the word "test" in `my_string` and print the result.
 - Use the `replace` method to replace the word "test" with the word "example" in `my_string` and print the resulting string.
19. Create a string variable named `my_string` and assign it the value "python".
- Use slicing to print the first three characters of `my_string` in reverse order.
 - Use slicing to print the last two characters of `my_string` in reverse order.
 - Use the `join` method to add a hyphen between each character of `my_string` and print the resulting string.
20. Create a string variable named `my_string` and assign it the value "Python is a popular programming language".
- a. Use the `title` method to capitalize the first letter of each word in `my_string` and print the resulting string.
 - b. Use the `split` method to split `my_string` into a list of words and print the result.
 - c. Use the `replace` method to replace the word "Python" with "Java" in `my_string` and print the resulting string.
21. Create a string variable named `my_string` and assign it the value "Hello, World!".

- a. Use the lower method to convert my_string to lowercase and print the resulting string.
 - b. Use the upper method to convert my_string to uppercase and print the resulting string.
 - c. Use slicing to print the string "World" from my_string.
22. Create a string variable named my_string and assign it the value "racecar".
- a. Use slicing to print the string "race" from my_string.
 - b. Use slicing to print the string "cec" from my_string in reverse order.
 - c. Check if my_string is a palindrome (i.e., reads the same forwards and backwards) and print the result.