Absolutely! Here are the **answers** to the **20 beginner-friendly interview questions about strings in Python**:

**Basic String Questions**

1. **What is a string in Python? How do you create one?**
   * A string is a sequence of characters enclosed in single or double quotes.
   * Example: my\_string = "Hello, world!" or my\_string = 'Hello, world!'
2. **How do you find the length of a string in Python?**
   * Use the len() function.
   * Example: len("Hello") will return 5.
3. **Write a Python program to take a string input from the user and print it.**

user\_input = input("Enter a string: ")

print("You entered:", user\_input)

1. **How can you access the first and last character of a string?**
   * First character: my\_string[0]
   * Last character: my\_string[-1]

**String Slicing Questions**

1. **What is string slicing? Can you show how to extract a substring from a string?**
   * String slicing allows you to extract a part of a string using my\_string[start:end].
   * Example: my\_string = "Hello"; my\_string[1:4] will return "ell".
2. **Write a Python program to reverse a string using slicing.**

my\_string = "Python"

reversed\_string = my\_string[::-1]

print(reversed\_string)

Output: nohtyP

1. **How do you extract the first 5 characters of a string?**
   * Use slicing: my\_string[:5]

**String Methods**

1. **How do you convert a string to uppercase or lowercase in Python?**
   * Uppercase: my\_string.upper()
   * Lowercase: my\_string.lower()
2. **Write a Python program to count how many times a specific character appears in a string.**
3. my\_string = "hello world"
4. count = my\_string.count('l')
5. print(count)

Output: 3

1. **How do you check if a string starts with or ends with a specific word?**
   * my\_string.startswith("word") returns True if the string starts with "word".
   * my\_string.endswith("word") returns True if the string ends with "word".

**Working with Strings**

1. **Write a Python program to remove leading and trailing spaces from a string.**

my\_string = " Hello World! "

cleaned\_string = my\_string.strip()

print(cleaned\_string)

Output: "Hello World!"

1. **How can you split a string into a list of words?**

my\_string = "Hello World Python"

words = my\_string.split()

print(words)

Output: ['Hello', 'World', 'Python']

1. **Write a Python program to join a list of strings into a single string with spaces.**

words = ['Hello', 'World', 'Python']

result = ' '.join(words)

print(result)

Output: "Hello World Python"

**String Comparison and Search**

1. **How do you check if two strings are equal in Python?**
   * Use the == operator.
   * Example: "hello" == "hello" will return True.
2. **How do you check if a substring exists in a string?**
   * Use the in keyword.
   * Example: 'lo' in 'hello' will return True.
3. **Write a Python program to find the position of a substring in a string.**

my\_string = "hello world"

position = my\_string.find("world")

print(position)

Output: 6 (The position where "world" starts)

**Advanced Beginner**

1. **How do you replace a specific word in a string with another word?**

my\_string = "Hello world"

updated\_string = my\_string.replace("world", "Python")

print(updated\_string)

Output: "Hello Python"

1. **What will my\_string[::-1] do? Explain it.**
   * This reverses the string.
   * Example: "Hello"[::-1] will return "olleH".
2. **Write a Python program to check if a string is a palindrome (reads the same backward and forward).**

my\_string = "madam"

if my\_string == my\_string[::-1]:

print("Palindrome")

else:

print("Not a palindrome")

Output: "Palindrome"

1. **What is the difference between a string and a list in Python?**
   * A string is a sequence of characters (immutable), while a list is a collection of items that can be of any type (mutable).
   * Example:
     + String: "hello"
     + List: ["hello", "world"]

These answers should give you a solid foundation for any beginner-level string questions in interviews. Let me know if you need further clarifications on any point! 😊