

Python String Practice Questions

1. What will be the output?

```
s = 'Python'  
print(s[0], s[-1])
```

2. What will be the output?

```
s = 'Computer'  
print(s[2:5])
```

3. What will be the output?

```
s = program to count  
print(s[1:4:-1])
```

4. Write a program to count the number of characters in a string without using len().

5. Write a program to count vowels and consonants in a given string.

6. Write a program to check whether a string is a palindrome.

7. Write a program to convert a string into uppercase without using upper().

8. Write a program to count the number of words in a sentence.

9. Write a program to remove all spaces from a string.

10. Write a program to find the frequency of a given character in a string.

11. Write a program to remove duplicate characters from a string.

12. Write a program to find the second most frequent character in a string.

13. Write a program to check whether two strings are anagrams.

14. Write a program to find the longest word in a sentence.

15. Write a program to check whether a string is a valid email address.

16. Write a program to validate a strong password (min 8 chars, uppercase, lowercase, digit, special character).

17. Write a program to count occurrences of each word in a paragraph.

18. Write a program to find the first non-repeating character.

19. Count uppercase, lowercase, digits, and special characters separately.

20. Write a menu-driven program to perform multiple string operations.

(See the next page for the answer of 20th Question)

```

# Menu Driven Program for String Operations
def display_menu():
    print("\n----- STRING OPERATIONS MENU -----")
    print("1. Convert to Uppercase")
    print("2. Convert to Lowercase")
    print("3. Reverse String")
    print("4. Count Vowels")
    print("5. Check Palindrome")
    print("6. Find Length of String")
    print("7. Exit")
while True:
    display_menu()
    choice = input("Enter your choice (1-7): ")
    if choice == '7':
        print("Exiting Program...")
        break
    s = input("Enter a string: ")
    if choice == '1':
        print("Uppercase:", s.upper())
    elif choice == '2':
        print("Lowercase:", s.lower())
    elif choice == '3':
        print("Reversed String:", s[::-1])
    elif choice == '4':
        vowels = "aeiouAEIOU"
        count = 0
        for ch in s:
            if ch in vowels:
                count += 1
        print("Number of vowels:", count)
    elif choice == '5':
        if s == s[::-1]:
            print("Palindrome")
        else:
            print("Not a Palindrome")
    elif choice == '6':
        print("Length of string:", len(s))
    else:
        print("Invalid choice! Please select 1-7.")

```