

Exercises

1. Write a Python program to print the length of a string.
2. Write a Python program to count the number of characters in a string.
3. Write a Python program to reverse a string.
4. Write a Python program to check whether a string is a palindrome or not.
5. Write a Python program to remove all the vowels from a string.
6. Write a Python program to check whether a string contains only letters.
7. Write a Python program to check whether a string is a pangram or not.
8. Write a Python program to capitalize the first letter of each word in a sentence.
9. Write a Python program to remove all the punctuation from a string.
10. Write a Python program to concatenate two strings.

Exercises and Solution

1. Write a Python program to print the length of a string.

```
string = "Hello, world!"  
print(len(string))
```

2. Write a Python program to count the number of characters in a string.

```
string = "Hello, world!"  
count = 0  
for char in string:  
    count += 1  
print(count)
```

3. Write a Python program to reverse a string.

```
string = "Hello, world!"  
reverse = ""  
for char in string:  
    reverse = char + reverse  
print(reverse)
```

4. Write a Python program to check whether a string is a palindrome or not.

```
string = "racecar"  
reverse = ""  
for char in string:  
    reverse = char + reverse  
if string == reverse:  
    print("The string is a palindrome")  
else:  
    print("The string is not a palindrome")
```

5. Write a Python program to remove all the vowels from a string.

```
string = "Hello, world!"
vowels = "aeiouAEIOU"
new_string = ""
for char in string:
    if char not in vowels:
        new_string += char
print(new_string)
```

6. Write a Python program to check whether a string contains only letters.

```
string = "Hello, world!"
is_alpha = True
for char in string:
    if not char.isalpha():
        is_alpha = False
        break
if is_alpha:
    print("The string contains only letters")
else:
    print("The string does not contain only letters")
```

7. Write a Python program to check whether a string is a pangram or not.

```
string = "The quick brown fox jumps over the lazy dog"
alphabet = "abcdefghijklmnopqrstuvwxyz"
is_pangram = True
for char in alphabet:
    if char not in string.lower():
        is_pangram = False
        break
if is_pangram:
    print("The string is a pangram")
else:
    print("The string is not a pangram")
```

8. Write a Python program to capitalize the first letter of each word in a sentence.

```
sentence = "the quick brown fox jumps over the lazy dog"
words = sentence.split()
new_sentence = ""
for word in words:
    new_sentence += word.capitalize() + " "
print(new_sentence)
```

9. Write a Python program to remove all the punctuation from a string.

```
import string
string = "Hello, world! This is a sentence with punctuation."
new_string = string.translate(str.maketrans("", "", string.punctuation))
print(new_string)
```

10. Write a Python program to concatenate two strings.

```
string1 = "Hello"
string2 = "world"
concatenated = string1 + " " + string2
print(concatenated)
```