1. **Write a Python program to find words which are greater than given length k?**

def find\_long\_words(text, k):

words = text.split()

long\_words = []

for word in words:

if len(word) > k:

long\_words.append(word)

return long\_words

text = "The quick brown fox jumps over the lazy dog"

k = 4

result = find\_long\_words(text, k)

print(f"Words longer than {k} characters: {result}")

1. **Write a Python program for removing i-th character from a string?**

def remove\_character(string, i):

if i < 0 or i >= len(string):

return string

return string[:i] + string[i+1:]

input\_string = "Hello, World!"

index\_to\_remove = 7

result = remove\_character(input\_string, index\_to\_remove)

print(f"String after removing character at index {index\_to\_remove}: {result}")

1. **Write a Python program to split and join a string?**

def split\_string(string, delimiter):

split\_result = string.split(delimiter)

return split\_result

def join\_string(strings, delimiter):

joined\_result = delimiter.join(strings)

return joined\_result

input\_string = "Hello, World! How are you?"

delimiter = " "

split\_result = split\_string(input\_string, delimiter)

print(f"Split result: {split\_result}")

joined\_result = join\_string(split\_result, delimiter)

print(f"Joined result: {joined\_result}")

1. **Write a Python to check if a given string is binary string or not?**

def is\_binary\_string(string):

for char in string:

if char != '0' and char != '1':

return False

return True

input\_string = input("Enter a string: ")

is\_binary = is\_binary\_string(input\_string)

if is\_binary:

print("The string is a binary string.")

else:

print("The string is not a binary string.")

1. **Write a Python program to find uncommon words from two Strings?**

def find\_uncommon\_words(string1, string2):

words1 = set(string1.split())

words2 = set(string2.split())

uncommon\_words = words1.symmetric\_difference(words2)

return uncommon\_words

input\_string1 = "Hello world, how are you?"

input\_string2 = "Hello Python, what are you doing?"

uncommon\_words = find\_uncommon\_words(input\_string1, input\_string2)

print("Uncommon words:")

for word in uncommon\_words:

print(word)

1. **Write a Python to find all duplicate characters in string?**

def find\_duplicate\_characters(string):

duplicates = []

for char in string:

if string.count(char) > 1 and char not in duplicates:

duplicates.append(char)

return duplicates

input\_string = "Hello, World!"

duplicate\_chars = find\_duplicate\_characters(input\_string)

print("Duplicate characters:")

for char in duplicate\_chars:

print(char)

1. **Write a Python Program to check if a string contains any special character?**

import re

def has\_special\_characters(string):

pattern = r'[^a-zA-Z0-9\s]' # Regex pattern to match special characters

match = re.search(pattern, string)

return match is not None

input\_string = input("Enter a string: ")

has\_special\_chars = has\_special\_characters(input\_string)

if has\_special\_chars:

print("The string contains special characters.")

else:

print("The string does not contain special characters.")