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

def find\_words\_greater\_than\_k(sentence, k):

words = sentence.split()

result = [word for word in words if len(word) > k]

return result

text = "This is a sample text to find words greater than length 4"

k = 4

print("Words greater than length", k, ":", find\_words\_greater\_than\_k(text, k))

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

def remove\_ith\_character(s, i):

return s[:i] + s[i+1:]

string = "example"

i = 2

print("String after removing the i-th character:", remove\_ith\_character(string, i))

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

def split\_and\_join\_string(s):

words = s.split()

return '-'.join(words)

string = "This is a sample string"

print("String after split and join:", split\_and\_join\_string(string))

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

def is\_binary\_string(s):

return all(char in '01' for char in s)

string1 = "010101"

string2 = "101201"

print("Is string1 a binary string?", is\_binary\_string(string1))

print("Is string2 a binary string?", is\_binary\_string(string2))

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

def find\_uncommon\_words(str1, str2):

words1 = set(str1.split())

words2 = set(str2.split())

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

return uncommon\_words

text1 = "This is a sample text"

text2 = "This is another sample text with some different words"

print("Uncommon words:", find\_uncommon\_words(text1, text2))

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

def find\_duplicate\_characters(s):

duplicates = []

for char in s:

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

duplicates.append(char)

return duplicates

string = "hello world"

print("Duplicate characters:", find\_duplicate\_characters(string))

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

import string

def has\_special\_character(s):

special\_chars = set(string.punctuation)

return any(char in special\_chars for char in s)

string1 = "Hello, world!"

string2 = "Just a normal string"

print("Does string1 contain any special character?", has\_special\_character(string1))

print("Does string2 contain any special character?", has\_special\_character(string2))