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

Ans1

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

words = s.split()

long\_words = []

for word in words:

if len(word) > k:

long\_words.append(word)

return long\_words

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

k = 4

print(find\_long\_words(s, k)) # Output: ['quick', 'brown', 'jumps']

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

Ans2

def remove\_char(s, i):

chars = list(s)

del chars[i]

return ''.join(chars)

s = "hello world"

i = 4

print(remove\_char(s, i)) # Output: "helo world"

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

Ans3

def split\_and\_join(s):

words = s.split()

new\_s = ' '.join(words)

return new\_s

s = "The quick brown fox"

new\_s = split\_and\_join(s)

print(new\_s) # Output: "The quick brown fox"

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

Ans4

def is\_binary\_string(s):

for c in s:

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

return False

return True

s1 = "10101010101"

s2 = "10101020101"

print(is\_binary\_string(s1)) # Output: True

print(is\_binary\_string(s2)) # Output: False

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

Ans5

def find\_uncommon\_words(s1, s2):

words1 = s1.split()

words2 = s2.split()

set1 = set(words1)

set2 = set(words2)

uncommon\_words = set1.symmetric\_difference(set2)

return list(uncommon\_words)

s1 = "the quick brown fox jumps over the lazy dog"

s2 = "the quick red fox jumps over the lazy cat"

uncommon = find\_uncommon\_words(s1, s2)

print(uncommon) # Output: ['dog', 'red', 'cat']

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

Ans6

def find\_duplicate\_characters(s):

duplicates = set()

seen = set()

for c in s:

if c in seen:

duplicates.add(c)

else:

seen.add(c)

return duplicates

s = "hello world"

duplicates = find\_duplicate\_characters(s)

print(duplicates) # Output: {'l', 'o'}

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

Ans7

import re

def contains\_special\_characters(s):

pattern = r'[!@#$%^&\*(),.?":{}|<>]'

match = re.search(pattern, s)

if match:

return True

else:

return False

s1 = "Hello, World!"

s2 = "Hello World"

print(contains\_special\_characters(s1)) # Output: True

print(contains\_special\_characters(s2)) # Output: False