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

Sol:- def find\_long\_words(words, k):

"""

This function takes a list of words and a length k as input,

and returns a list of words that are longer than k.

"""

long\_words = []

for word in words:

if len(word) > k:

long\_words.append(word)

return long\_words

# Example usage

words = ['apple', 'banana', 'cherry', 'date', 'elderberry', 'fig']

k = 5

long\_words = find\_long\_words(words, k)

print(long\_words)

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

Sol:- def remove\_character(s, i):

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

# Example usage

s = "Python"

i = 2

new\_s = remove\_character(s, i)

print(new\_s) # Output: Pyhon

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

Sol:- # Split a string and join with a different character

string = "hello world"

split\_string = string.split() # split string into a list

join\_string = "-".join(split\_string) # join the list with -

print(join\_string)

# Output: hello-world

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

Sol:- def is\_binary\_string(s):

for char in s:

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

return False

return True

# Example usage

s1 = '101010'

s2 = '0110102'

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

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

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

Sol:- def uncommon\_words(str1, str2):

# Split the strings into lists of words

words1 = str1.split()

words2 = str2.split()

# Create a set of words from both strings

set1 = set(words1)

set2 = set(words2)

# Find the uncommon words between the two sets

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

# Return the uncommon words as a list

return list(uncommon\_set)

# Example usage

str1 = "the quick brown fox jumps over the lazy dog"

str2 = "the slow red turtle walks under the active cat"

uncommon = uncommon\_words(str1, str2)

print(uncommon)

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

Sol:- string = "Hello, World!" # input string

duplicates = [] # to store the duplicate characters

# loop through each character in the string

for char in string:

# check if the character occurs more than once in the string

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

duplicates.append(char)

# print the list of duplicate characters

print("Duplicate characters in the string are:", duplicates)

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

Sol:- import string

def has\_special\_character(input\_string):

special\_chars = set(string.punctuation)

for char in input\_string:

if char in special\_chars:

return True

return False

# Example usage

input\_str = "Hello, World!"

if has\_special\_character(input\_str):

print("Input string contains special character(s)")

else:

print("Input string does not contain any special characters")