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

from re import \*

def words(string,k):

lis = [] #empty list to store words greater than k

x=split('\W+',string) #to split at spaces and punctuations

for i in x: #once the string is split, check each word’s length

if len(i)>k:

lis.append(i) #store in list if word length is greater than k

return lis

string1 = 'hello are you doing? I hope you had a great day'

k = 3

print (words(string1,k))

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

from re import \*

def remov(string,i):

x = list(string) #converting string to list first

x.pop(i-1) # removing ith character from list

str1 = ''

return str1.join(x) #converting list back to string

string1 = 'hello how are you?'

i = 3

print (remov(string1,i))

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

string = 'hello! how are you?'

split\_str = string.split()

x = ' '

join\_str = x.join(split\_str) #list elements are joined by ‘ ‘ in between

print (split\_str)

print (join\_str)

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

def check(string) :

b = set(string) #converting string to set

if b ==({'0', '1'}|{'0'}|{'1'}): #checking if the set only contains 0 and 1

print("Binary String")

else :

print("Non Binary String")

s1= '00110101'

check(s1)

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

def check(s1,s2):

x1 = s1.split()

x2 = s2.split()

x3= [] #empty list to store uncommon words

for i in x1: #run loop for words of 1st list

if not(i in x2): #if word not found in second list, then store it in x3

x3.append(i)

else:

x2.remove(i) #else if word found then remove it from second list

for j in x2: #if any words left in second list, store them in x3

x3.append(j)

return x3

str1 = 'hello how are you'

str2 = 'hello friend how are you'

print(check(str1,str2))

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

def group\_chars(string): #function to group similar characters

chars = set() #set to store unique characters

list\_main = [] #list to store lists of characters

list\_chars = list(string) #converting string into list

for i,x in enumerate(list\_chars): #loop to check if a character exists in rest of list

dummy = [] #dummy list to store similar characters

if not(x.lower() in chars): #only check if a character is not checked before

chars.add(x.lower()) #if it’s a new character, add to the set

for j in range(i,len(list\_chars)): #loop to check from character’s index position to end

if x == list\_chars[j]:

dummy.append(x) #if match is found add the character to dummy list

list\_main.append(dummy) #keep adding dummy lists to main list

list\_main.sort(key=len,reverse=True) #sort the main list as per length of inner lists

return list\_main

s1 = input('enter string')

print (group\_chars(s1))

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

def check\_sp(string):

import re

x = re.search('[^\w\s]',string) #for regex, using a character class and invert the set of characters

return bool(x)

s1 = input('enter')

print (check\_sp(s1))