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

**ANS:-**

**# Python program to find all string**

**# which are greater than given length k**

**# function find string greater than length k**

**def string\_k(k, str):**

**# create the empty string**

**string = []**

**# split the string where space is comes**

**text = str.split(" ")**

**# iterate the loop till every substring**

**for x in text:**

**# if length of current sub string**

**# is greater than k then**

**if len(x) > k:**

**# append this sub string in**

**# string list**

**string.append(x)**

**# return string list**

**return string**

**# Driver Program**

**k = 3**

**str = "geek for geeks"**

**print(string\_k(k, str))**

**Output**

geek geeks

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

**ANS:-**

**# Python3 program for removing i-th**

**# indexed character from a string**

**# Removes character at index i**

**def remove(string, i):**

**# Characters before the i-th indexed**

**# is stored in a variable a**

**a = string[: i]**

**# Characters after the nth indexed**

**# is stored in a variable b**

**b = string[i + 1:]**

**# Returning string after removing**

**# nth indexed character.**

**return a + b**

**# Driver Code**

**if \_\_name\_\_ == '\_\_main\_\_':**

**string = "geeksFORgeeks"**

**# Remove nth index element**

**i = 5**

**# Print the new string**

**print(remove(string, i))**

**Output**

geeksORgeeks

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

**ANS:-**

**# Python program to split a string and**

**# join it using different delimiter**

**def split\_string(string):**

**# Split the string based on space delimiter**

**list\_string = string.split(' ')**

**return list\_string**

**def join\_string(list\_string):**

**# Join the string based on '-' delimiter**

**string = '-'.join(list\_string)**

**return string**

**# Driver Function**

**if \_\_name\_\_ == '\_\_main\_\_':**

**string = 'Geeks for Geeks'**

**# Splitting a string**

**list\_string = split\_string(string)**

**print(list\_string)**

**# Join list of strings into one**

**new\_string = join\_string(list\_string)**

**print(new\_string)**

**Output**

['Geeks', 'for', 'Geeks']

Geeks-for-Geeks

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

**ANS:-**

**# Python program to check**

**# if a string is binary or not**

**# function for checking the**

**# string is accepted or not**

**def check(string):**

**# set function convert string**

**# into set of characters .**

**p = set(string)**

**# declare set of '0', '1' .**

**s = {'0', '1'}**

**# check set p is same as set s**

**# or set p contains only '0'**

**# or set p contains only '1'**

**# or not, if any one condition**

**# is true then string is accepted**

**# otherwise not .**

**if s == p or p == {'0'} or p == {'1'}:**

**print("Yes")**

**else:**

**print("No")**

**# driver code**

**if \_\_name\_\_ == "\_\_main\_\_":**

**string = "101010000111"**

**# function calling**

**check(string)**

**Output**

Yes

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

**ANS:-**

**# Python3 program to find a list of uncommon words**

**# Function to return all uncommon words**

**def UncommonWords(A, B):**

**# count will contain all the word counts**

**count = {}**

**# insert words of string A to hash**

**for word in A.split():**

**count[word] = count.get(word, 0) + 1**

**# insert words of string B to hash**

**for word in B.split():**

**count[word] = count.get(word, 0) + 1**

**# return required list of words**

**return [word for word in count if count[word] == 1]**

**# Driver Code**

**A = "Geeks for Geeks"**

**B = "Learning from Geeks for Geeks"**

**# Print required answer**

**print(UncommonWords(A, B))**

**Output**

['Learning', 'from']

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

**ANS:-**

**def duplicate\_characters(string):**

**# Create an empty dictionary**

**chars = {}**

**# Iterate through each character in the string**

**for char in string:**

**# If the character is not in the dictionary, add it**

**if char not in chars:**

**chars[char] = 1**

**else:**

**# If the character is already in the dictionary, increment the count**

**chars[char] += 1**

**# Create a list to store the duplicate characters**

**duplicates = []**

**# Iterate through the dictionary to find characters with count greater than 1**

**for char, count in chars.items():**

**if count > 1:**

**duplicates.append(char)**

**return duplicates**

**# Test cases**

**print(duplicate\_characters("geeksforgeeks"))**

**Output**

['g', 'e', 'k', 's']

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

**ANS:-**

***# Python3 program to check if a string***

***# contains any special character***

***# import required package***

**import re**

***# Function checks if the string***

***# contains any special character***

**def run(string):**

***# Make own character set and pass***

***# this as argument in compile method***

**regex = re.compile('[@\_!#$%^&\*()<>?/\|}{~:]')**

***# Pass the string in search***

***# method of regex object.***

**if(regex.search(string) == None):**

**print("String is accepted")**

**else:**

**print("String is not accepted.")**

***# Driver Code***

**if \_\_name\_\_ == '\_\_main\_\_' :**

***# Enter the string***

**string = "Geeks$For$Geeks"**

***# calling run function***

**run(string)**

**Output**

String is not accepted.