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

def find\_words(string, k):

words = string.split()

result = []

for word in words:

if len(word) > k:

result.append(word)

return result

string = input("Enter a string: ")

k = int(input("Enter an integer k: "))

print("Words with length greater than k:", find\_words(string, k))

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

def remove\_ith\_char(string, i):

return string[:i] + string[i+1:]

string = input("Enter a string: ")

i = int(input("Enter the index of the character to remove: "))

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

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

def split\_and\_join(string, split\_delimiter, join\_delimiter):

split\_list = string.split(split\_delimiter)

joined\_string = join\_delimiter.join(split\_list)

return joined\_string

string = input("Enter a string: ")

split\_delimiter = input("Enter the split delimiter: ")

join\_delimiter = input("Enter the join delimiter: ")

print("Result after splitting and joining the string:", split\_and\_join(string, split\_delimiter, join\_delimiter))

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

def is\_binary\_string(string):

for char in string:

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

return False

return True

string = input("Enter a string: ")

if is\_binary\_string(string):

print("The string is a binary string.")

else:

print("The string is not a binary string.")

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

def uncommon\_words(string1, string2):

words1 = set(string1.split())

words2 = set(string2.split())

uncommon = words1.symmetric\_difference(words2)

return uncommon

string1 = input("Enter string 1: ")

string2 = input("Enter string 2: ")

print("Uncommon words:", list(uncommon\_words(string1, string2)))

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

def duplicate\_characters(string):

char\_count = {}

for char in string:

if char in char\_count:

char\_count[char] += 1

else:

char\_count[char] = 1

duplicates = [char for char, count in char\_count.items() if count > 1]

return duplicates

string = input("Enter a string: ")

print("Duplicate characters:", duplicate\_characters(string))

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

import re

def has\_special\_char(string):

pattern = '[^A-Za-z0-9]+'

result = re.search(pattern, string)

return result != None

string = input("Enter a string: ")

if has\_special\_char(string):

print("The string contains special characters.")

else:

print("The string does not contain any special characters.")