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

I/P:

**def** checkLengthOfString():

in\_string **=** input("Enter the string: ")

in\_length **=** int(input('Enter the length of the string: '))

out\_string **=** []

**for** string **in** in\_string**.**split(" "):

**if** len(string) **>** in\_length:

out\_string**.**append(string)

print(','**.**join(out\_string))

checkLengthOfString()

O/P:

Enter the string: Full Stack Data Science Course is Awesome

Enter the length of the string: 4

Stack,Science,Course,Awesome

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

I/P:

**def** removeCharacter():

in\_string **=** input("Enter the String: ")

in\_char\_num **=** int(input("Enter the ith Character: "))

out\_string **=** ''

**for** ele **in** range(len(in\_string)):

**if** ele **!=** in\_char\_num:

out\_string **=** out\_string **+** in\_string[ele]

print(out\_string)

removeCharacter()

O/P:

Enter the String: Pythonisgood

Enter the ith Character: 2

Pyhonisgood

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

I/P:

**def** splitJoinString():

in\_string **=** input('Enter the string: ')

print(f"Split String: {in\_string**.**split(' ')}")

print(f"Join String: {' '**.**join(in\_string**.**split(' '))}")

splitJoinString()

O/P:

Enter the string: Full Stack Data Science Course

Split String: [‘Full’, 'Stack', 'Data', 'Science', 'Course']

Join String: Full Stack Data Science Course

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

I/P:

**def** checkBinary():

in\_string **=** input('Enter the string: ')

stun **=** 0

**for** ele **in** in\_string:

**if** ele **in** ['0','1']:

stun **=** 1

**continue**

**else**:

stun **=** 0

**break**

statement **=** 'is a binary string' **if** stun **==** 1 **else** 'is not a binary string'

print(f'{in\_string} {statement}')

checkBinary()

checkBinary()

O/P:

Enter the string: 1234

1234 is not a binary string

Enter the string: 1010101

1010101 is a binary string

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

I/P:

**def** unCommonWords():

in\_string\_1 **=** set(input("Enter the String 1: ")**.**split(' '))

in\_string\_2 **=** set(input("Enter the String 2: ")**.**split(' '))

out\_string **=** (in\_string\_1**.**union(in\_string\_2))**.**difference(in\_string\_1**.**intersection(in\_string\_2))

print(out\_string)

unCommonWords()

O/P:

Enter the String 1: Supervised Learning

Enter the String 2: Unsupervised Learning

{'Unsupervised', 'Supervised'}

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

I/P:

**def** duplicateChars():

in\_string **=** input('Enter the string: ')

non\_duplicate\_list **=** []

duplicate\_list **=** []

**for** ele **in** in\_string:

**if** ele **not** **in** non\_duplicate\_list:

non\_duplicate\_list**.**append(ele)

**else**:

duplicate\_list**.**append(ele)

print(f'Duplicate characters are: {list(set(duplicate\_list))}')

duplicateChars()

O/P:

Enter the string: full stack data science course

Duplicate characters are: ['s', 't', 'c', 'l', 'a', 'e', ' ', 'u']

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

I/P:

**def** checkSpecialChar():

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

in\_num **=** input('Enter the string: ')

count **=** 0

char\_list **=** []

**for** ele **in** in\_num:

**if** ele **in** spl\_chars:

char\_list**.**append(ele)

count **=** count**+**1

print(f'There are {count} Special Characters in {in\_num} which are {char\_list}')

checkSpecialChar()

O/P:

Enter the string: #Full Metal Alchemist: Brotherhood

There are 2 Special Characters in Full Metal Alchemist: Brotherhood which are [‘#’, ':']