# Assignment 11

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

***Answer:***

**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()

Enter the string: INeuron Full Stack Data Science Course is Awesome  
Enter the length of the string: 4  
INeuron,Stack,Science,Course,Awesome

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

***Answer:***

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()

Enter the String: ineuron  
Enter the ith Character: 2  
inuron

#### Write a Python program to split and join a string ?

***Answer:***

def splitJoinString():  
 in\_string = input('Enter the string: ')  
 print(f"Split String: {in\_string.split(' ')}")  
 print(f"Join String: {' '.join(in\_string.split(' '))}")  
  
splitJoinString()

Enter the string: Ineuron Full Stack Data Science Course  
Split String: ['Ineuron', 'Full', 'Stack', 'Data', 'Science', 'Course']  
Join String: Ineuron Full Stack Data Science Course

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

***Answer:***

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 binart string'   
 print(f'{in\_string} {statement}')  
  
checkBinary()  
checkBinary()

Enter the string: 1234  
1234 is not a binart string  
Enter the string: 1010101  
1010101 is a binary string

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

#### Answer:

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()

Enter the String 1: Supervised Learning  
Enter the String 2: Unsupervised Learning  
{'Unsupervised', 'Supervised'}

#### Write a Python to find all duplicate characters in string ?

#### Answer:

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()

Enter the string: full stack data science course  
Duplicate characters are: ['s', 't', 'c', 'l', 'a', 'e', ' ', 'u']

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

#### Answer:

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} Speical Characters in {in\_num} which are {char\_list}')  
   
   
checkSpecialChar()  
checkSpecialChar()

Enter the string: DS @ Ineuron by Sudhanshu & krish  
There are 2 Speical Characters in DS @ Ineuron by Sudhanshu & krish which are ['@', '&']  
Enter the string: Full Metal Alchemist : Brotherhood  
There are 1 Speical Characters in Full Metal Alchemist : Brotherhood which are [':']