# **Assignment 11**

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

In [11]:

**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

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

In [18]:

**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

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

In [26]:

**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

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

In [49]:

**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

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

In [79]:

**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'}

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

In [85]:

**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']

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

In [90]:

**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 [':']