Assignment 11 Solutions ¶

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.inters
    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_li


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 ar
e [':']
```