Assignment 11 Solutions

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

In [1]:
```
def checkLengthIfString():
    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))

checkLengthIfString()
```

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

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

In [2]:
```
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: data
Enter the ith Character: 2
daa
```

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

In [3]:
```
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 [5]:
```
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 sting'
    print(f'{in_string} {statement}')

checkBinary()
checkBinary()
```

```
Enter the string: 4567
4567 is not a binart sting
```

```
Enter the string: 1011
1011 is a binary string
```

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

In [8]:

```
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: Duplicate
Enter the String 2: Unduplicate
{'Duplicate', 'Unduplicate'}
```

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

In [9]:

```
def duplicatecateChars():
    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))}')

duplicatecateChars()
```

```
Enter the string: data science course
Duplicate characters are: ['e', 'a', ' ', 'c', 's']
```

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

In [11]:

```
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()
checkSpecialChar()
```

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

In [ ]:

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