1 Python Basic Programming Assignment 11

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

In [1]:
```
n="hello welcome to the world of metaverse"; l=4
s=n.split(" ")
l=list(filter(lambda x: (len(x)>l),s))
print(l)
```

```
['hello', 'welcome', 'world', 'metaverse']
```

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

In [1]:
```
def remove_char(s, i):
    a = s[ : i]
    b = s[i + 1: ]

    return a+b

string = "Pythonisgood"
# Remove ith index element
i = 5
print(remove_char(string,i-1))
```

```
Pythnisgood
```

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

In [4]:
```
def split_string(string):
    list_string = string.split(' ')
    return list_string

def join_string(list_string):
    string = '-'.join(list_string)
    return string

string = 'Welcome to study tonight'

list_string = split_string(string)
print("After Splitting: ",list_string)

res_string = join_string(list_string)
print("After joining: ",res_string)
```

```
After Splitting:  ['Welcome', 'to', 'study', 'tonight']
After joining:  Welcome-to-study-tonight
```

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

In [6]:
```
def check(string) :
    b = set(string)
    s = {'0', '1'}
    if s == b or b == {'0'} or b == {'1'}:
        print("Binary String")
    else :
        print("Non Binary String")

s1= "00110101"
check(s1)
s2 = "1010100200111"
check(s2)
```

```
Binary String
Non Binary String
```

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

In [7]:
```
def uncommon_words(s1, s2):
    count = {}
    for word in s1.split():
        count[word] = count.get(word, 0) + 1
    # words of string s2
    for word in s2.split():
        count[word] = count.get(word, 0) + 1
    # return required list of words
    return [word for word in count if count[word] == 1]

s1="Studytonight"
s2="Welcome to Studytonight"

print(uncommon_words(s1, s2))
```

```
['Welcome', 'to']
```

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

In [8]:
```

def duplicate_characters(string):
    chars = {}
    for char in string:
        if char not in chars:
            chars[char] = 1
        else:
            chars[char] += 1
    duplicates = []
    for char, count in chars.items():
        if count > 1:
            duplicates.append(char)

    return duplicates
print(duplicate_characters("geeksforgeeks"))
```

```
['g', 'e', 'k', 's']
```

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

In [9]:
```
import re

def find(string):
    special_char=re.compile('[@_!$%^&*()<>?/\|}{~:]#')

    if special_char.search(string) == None:
        return "string is accepted"
    else:
        return "string not accpeted"


s="Hello15"
print(s)
print(find(s))
```

```
Hello15
string is accepted
```