Python Basic Programming Assignment 11

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

In [2]:

```python
# Getting input from user
myStr =  input('Enter the string : ')
k = int(input('Enter k  (value for accepting string) : '))
largerStrings = []

# Finding words with length greater than k
words = myStr.split(" ")
for word in words:
    if len(word) > k:
        largerStrings.append(word)

# printing values
print("All words which are greater than given length ", k, "are ", largerStrings)
```

```
Enter the string : My name is Anil S Adiga
Enter k  (value for accepting string) : 2
All words which are greater than given length  2 are  ['name', 'Anil', 'Adig
a']
```

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

In [3]:

```python
myStr =  input('Enter the string : ')
i = int(input('Enter the index of character to be removed : '))

resStr = ""

for index in range(len(myStr)):
    if index != i:
        resStr = resStr + myStr[index]

# Printing all strings...
print ("Entered string : " + myStr)
print ("String formed by removing i'th character : " + resStr)
```

```
Enter the string : Anil is at Ineuron
Enter the index of character to be removed : 2
Entered string : Anil is at Ineuron
String formed by removing i'th character : Anl is at Ineuron
```

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

In [4]:

```python
str1=input("Enter first String with space :: ")
print(str1.split())      #splits at space

str2=input("Enter second String with (,) :: ")
print(str2.split(','))     #splits at ','

str3=input("Enter third String with (:) :: ")
print(str3.split(':'))     #splits at ':'

str4=input("Enter fourth String with (;) :: ")
print(str4.split(';'))     #splits at ';'

str5=input("Enter fifth String without space :: ")
print([str5[i:i+2]for i in range(0,len(str5),2)])
```

```
Enter first String with space :: Anil
['Anil']
Enter second String with (,) :: is,
['is', '']
Enter third String with (:) :: at:
['at', '']
Enter fourth String with (;) :: Ineuron;
['Ineuron', '']
Enter fifth String without space :: F
['F']
```

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

In [6]:

```python
n=str(input('enter the number'))

if len(n) == 8:
    print("it's a binary number")
else:
    print("it's not a binary number")
```

```
enter the number25
it's not a binary number
```

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

In [7]:

```python
str1 = input('Enter first string : ')
str2 = input('Enter second string : ')

# finding uncommon words
count = {}
for word in str1.split():
    count[word] = count.get(word, 0) + 1
for word in str2.split():
    count[word] = count.get(word, 0) + 1

uncommonWords =  [word for word in count if count[word] == 1]

# printing uncommon words
print("All uncommon words from both the string are ", uncommonWords)
```

```
Enter first string : Anil
Enter second string : Adiga
All uncommon words from both the string are  ['Anil', 'Adiga']
```

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

In [12]:

```python
string = "AnilAdiga"
## initializing a list to append all the duplicate characters
duplicates = []
for char in string:
    ## checking whether the character have a duplicate or not
    ## str.count(char) returns the frequency of a char in the str
    if string.count(char) > 1:
    ## appending to the list if it's already not present
        if char not in duplicates:
            duplicates.append(char)
print(*duplicates)
```

```
A i
```

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

In [15]:

```python
import string
# special characters
special_chars = string.punctuation
# initializing a string
string_1 = "Anil@Adiga!"
string_2 = "AnilAdiga"
# checking the special chars in the string_1
bools = list(map(lambda char: char in special_chars, string_1))
print("Valid") if any(bools) else print("Invalid")
# checking the special chars in the string_2
bools = list(map(lambda char: char in special_chars, string_2))
print("Valid") if any(bools) else print("Invalid")
```

```
Valid
Invalid
```

In [ ]:

```python

```