

Programming Assignment 11

1. Write a Python program to find words which are greater than given length k?
2. Write a Python program for removing i-th character from a string?
3. Write a Python program to split and join a string?
4. Write a Python to check if a given string is binary string or not?
5. Write a Python program to find uncommon words from two Strings?
6. Write a Python to find all duplicate characters in string?
7. Write a Python Program to check if a string contains any special character?

```
In [1]: #1.    Write a Python program to find words which are greater than given length k?

def stringoflengthk(k, str):

    stringlist = []

    text = str.split()

    for x in text:

        if len(x) > k:
            stringlist.append(x)

    return stringlist

k = 4
str = "Write a Python program to find words which are greater than given length k?"
print(stringoflengthk(k, str))
```

```
In [2]: #2.    Write a Python program for removing i-th character from a string?

def stringreplaceith(i, stri):
    text = stri

    i=0
    for x in text:
        i+=1

    if i == k:
        text=text.replace(x, ' ')
        i=0

    return text

k = 6
stri = "Write a Python program to find words which are greater than given length k?"
print(stringreplaceith(k, stri))
```

In [3]: *#3. Write a Python program to split and join a string?*

```
def split_string(stri):
    text= stri
    wordlist=text.split()
    print('split list: ', wordlist)
    return wordlist
def join_strings(words):
    return ' '.join(words)

stri ="Write a Python program to split and join a string?"

join_strings(split_string(stri))
```

```
split list: ['Write', 'a', 'Python', 'program', 'to', 'split', 'and', 'join', 'a',
'string?']
```

Out[3]: 'Write a Python program to split and join a string?'

In [4]: *#4. Write a Python to check if a given string is binary string or not?*
b=(0,1)

```
def checkbin(str):
    b=(0,1)
    bin=0
    for x in str:
        if int(x) not in b:
            bin=1
        else:
            bin=0
    if bin ==0:
        print (str, ' is binary')
    if bin ==1:
        print (str, ' is not binary')
checkbin('44434234')
checkbin('0101')
```

```
44434234 is not binary
0101 is binary
```

In [5]: *#5. Write a Python program to find uncommon words from two Strings?*

```
def uncommonwords(str1, str2):
    list1=str1.split()
    list2=str2.split()
    uncommon=[]
    for i in list1:
        if i not in list2:
            uncommon.append(i)
    return uncommon

str1="Write a Python program to find uncommon words from two Strings?"
str2="Write a Python to find all duplicate characters in string?"
print('uncommon words are - ',uncommonwords(str1, str2))
```

```
uncommon words are - ['program', 'uncommon', 'words', 'from', 'two', 'Strings?']
```

In [6]: *#6. Write a Python to find all duplicate characters in string?*

```
def dupchar(str):
    list1=str1.split()
    list2=str2.split()
    common=[]
    n,m=0,0
    for i in str:

        for j in range(len(str)):
            if ((i == str[j]) & (i != ' ')):
```

```

        if i in common:
            continue

        common.append(i)

    return common

str1='Write a Python to find all duplicate characters in string?'
print('The following is the list of duplicate characters in the given string', dupch

```

The following is the list of duplicate characters in the given string ['W', 'r', 'i', 't', 'e', 'a', 'P', 'y', 'h', 'o', 'n', 'f', 'd', 'l', 'u', 'p', 'c', 's', 'g', '?']

```

In [7]: #7.      Write a Python Program to check if a string contains any special character?
import regex as re
def findspecial(str):
    regex = re.compile('[@_![$%^&*()<>?/\|}{~:~:]')
    string = str
    cha= regex.search(string)

    if(cha!=None):
        print('Found special character: "',cha.group(),'"')
    findspecial('ramoaging_v@gmail.com')

```

Found special character: " _ "

In []: