1. Python – Replace multiple words with K

In [1]:
```
test_str = 'Goods are good is best for goods and CS'

print("The original string is : " + str(test_str))

word_list = ["best", 'CS', 'for']

repl_wrd = 'gdg'

res = ' '.join([repl_wrd if idx in word_list else idx for idx in test_str.split()])

print("String after multiple replace : " + str(res))
```

```
The original string is : Goods are good is best for goods and CS
String after multiple replace : Goods are good is gdg gdg goods and gdg
```

2. Python | Permutation of a given string using inbuilt function.

In [2]:
```
from itertools import permutations

def allPermutations(str):

     permList = permutations(str)

     for perm in list(permList):
         print (''.join(perm))

if __name__ == "__main__":
    str = 'ABC'
    allPermutations(str)
```

```
ABC
ACB
BAC
BCA
CAB
CBA
```

3. Python | Check for URL in a String

In [3]:
```
import re

def Find(string):

    regex = r"(?i)\b((?:https?://|www\d{0,3}[.]|[a-z0-9.\-]+[.][a-z]{2,4}/)(?:[^\s()<>]+|\(([^\s()<>]+|(\([^\s()<>]

    url = re.findall(regex,string)
    return [x[0] for x in url]

string = 'My Profile: https://auth.google.org/user/Chinmoy%20Lenka/articles in the portal of https://www.google.org
print("Urls: ", Find(string))
```

```
Urls:  ['https://auth.google.org/user/Chinmoy%20Lenka/articles', 'https://www.google.org/']
```

4. Execute a String of Code in Python

In [4]:
```
def exec_code():
    LOC = """
def factorial(num):
    fact=1
    for i in range(1,num+1):
        fact = fact*i
    return fact
print(factorial(5))
"""
    exec(LOC)

exec_code()
```

```
120
```

5.String slicing in Python to rotate a string

In [5]:
```
def rotate(input,d):

    Lfirst = input[0 : d]
    Lsecond = input[d :]
    Rfirst = input[0 : len(input)-d]
    Rsecond = input[len(input)-d : ]

    print ("Left Rotation : ", (Lsecond + Lfirst) )
    print ("Right Rotation : ", (Rsecond + Rfirst))

if __name__ == "__main__":
    input = 'GoodsforGood'
    d=2
    rotate(input,d)
```

```
Left Rotation :  odsforGoodGo
Right Rotation :  odGoodsforGo
```

6.String slicing in Python to check if a string can become empty by recursive deletion

In [6]:
```
def checkEmpty(input, pattern):

    if len(input)== 0 and len(pattern)== 0:
         return 'true'

    if len(pattern)== 0:
         return 'true'

    while (len(input) != 0):

        index = input.find(pattern)

        if (index ==(-1)):
          return 'false'

        input = input[0:index] + input[index + len(pattern):]

    return 'true'

if __name__ == "__main__":
    input ='GOODSISGOOD'
    pattern ='GOOD'
    print (checkEmpty(input, pattern))
```

```
false
```

7. Python Counter| Find all duplicate characters in string

In [7]:
```
from collections import Counter


def find_dup_char(input):

    WC = Counter(input)

    for letter, count in WC.items():
        if (count > 1):
            print(letter)

if __name__ == "__main__":
    input = 'goodsforgood'
    find_dup_char(input)
```

```
g
o
d
```

8. Python – Replace all occurrences of a substring in a string.

In [8]:
```
input_string = "goodsforgood"
s1 = "good"
s2 = "abcd"
input_string = input_string.replace(s1, s2)
print(input_string)
```

```
abcdsforabcd
```

9. Python – Extract Unique values dictionary values.

In [12]:
```
my_dict = {'hi' : [5,3,8, 0],
   'there' : [22, 51, 63, 77],
   'how' : [7, 0, 22],
   'are' : [12, 11, 45],
   'you' : [56, 31, 89, 90]}

print("The dictionary is : ")
print(my_dict)

my_result = list(sorted({elem for val in my_dict.values() for elem in val}))

print("The unique values are : ")
print(my_result)
```

```
The dictionary is :
{'hi': [5, 3, 8, 0], 'there': [22, 51, 63, 77], 'how': [7, 0, 22], 'are': [12, 11, 45], 'you': [56, 31, 89, 90]}
The unique values are :
[0, 3, 5, 7, 8, 11, 12, 22, 31, 45, 51, 56, 63, 77, 89, 90]
```

10. Python program to find the sum of all items in a dictionary.

In [13]:
```
def returnSum(myDict):

    list = []
    for i in myDict:
        list.append(myDict[i])
    final = sum(list)

    return final

dict = {'a': 100, 'b': 200, 'c': 300}
print("Sum :", returnSum(dict))
```

```
Sum : 600
```

In [ ]: