Strings

In [1]:
```
#Palindrome or not
#Input : malayalam
#Output : Yes
value=input('enter a string: ')
value1=value[::-1]
if value==value1:
    print('palindrome')
else:
    print('not palindrome')
```

```
enter a string: malayalam
palindrome
```

In [3]:
```
#Python program to check whether the string is Symmetrical or Palindrome
string='khokho'
size=int(len(string)/2)
first=string[:size]
second=string[size:]
if first==second:
    print('Symmetrical')
else:
    print('Not Symmetrical')

if string==string[::-1]:
    print('Palindrome')
else:
    print('Not Palindrome')
```

```
Symmetrical
Not Palindrome
```

In [11]:
```
#Reverse words in a given String in Python
str="geeks quiz practice code"
res=[]
for i in str.split()[::-1]:
    res.append(i)
print(' '.join(res))
```

```
code practice quiz geeks
```

In [12]:
```
#remove i’th character from string in Python
test_str = "GeeksForGeeks"
val=int(input('enter the char to remove: '))
final=test_str[:val]+test_str[val+1:]
final
```

```
enter the char to remove: 2
```

Out[12]:
```
'GeksForGeeks'
```

In [24]:
```
#Python – Words Frequency in String Shorthands

test_str = 'Gfg is best . Geeks are good and Geeks like Gfg'
val=test_str.split()
final={i:val.count(i) for i in val}
final
```

Out[24]:
```
{'Gfg': 2,
 'is': 1,
 'best': 1,
 '.': 1,
 'Geeks': 2,
 'are': 1,
 'good': 1,
 'and': 1,
 'like': 1}
```

In [25]:
```
# Check if a Substring is Present in a Given String
Substring = "geeks"
String="geeks for geeks"
if Substring in String:
    print('Yes')
else:
    print('No')
```

```
Yes
```

In [26]:
```
# Convert Snake case to Pascal case
test_str = 'geeksforgeeks_is_best'
print(test_str.replace('_',' ').title())
```

```
Geeksforgeeks Is Best
```

In [28]:
```
# print len of string with and without len function
test='jeevitha'
```

```
print(len(test))
count=0
for i in test:
    count+=1
print(count)
```

```
8
8
```

In [33]:
```
# print the even length words
s = "i am laxmi"

final=[i for i in s.split() if (len(i)%2==0)]
final
```

Out[33]:
```
['am']
```

In [37]:
```
#Python | Program to accept the strings which contains all vowels
str='geeksforgeeks'
str1=str.lower()
vowels=['a','e','i','o','u']
res=[]
for i in vowels:
    if i in str1:
        res.append(i)
if res==vowels:
    print('yes')
else:
    print('No')
```

```
No
```

In [43]:
```
#Python | Count the Number of matching characters in a pair of string
str1 = 'aabcddekll12@'
str2 = 'bb22ll@55k'
res=[]
for i in str1:
    for j in str2:
        if i ==j:
            res.append(i)
unique=set(res)
print(len(unique))
```

```
5
```

In [53]:
```
#Remove all duplicates from a given string in Python
str='geeksforgeeks'
unique=[]

for i in str:
    if i not in unique:
        unique.append(i)
print(''.join(unique))
```

```
geksfor
```

In [56]:
```
#Python – Least Frequent Character in String
from collections import Counter
test_str = 'GeeksforGeeks'
test=Counter(test_str)
final=min(test,key=test.get)
final
```

Out[56]:
```
'f'
```

In [57]:
```
#Python – maximum Frequent Character in String
from collections import Counter
test_str = 'GeeksforGeeks'
test=Counter(test_str)
final=max(test,key=test.get)
final
```

Out[57]:
```
'e'
```

In [60]:
```
#Program to check if a string contains any special character
import string

def check_string(s):
    for i in s:
        if i in string.punctuation:
            print('Not accepted')
            return
    else:
        print('Accepted')
```

```
check_string("Geeks$For$Geeks")  # Output: String is not accepted
check_string("Geeks For Geeks")
```

```
Not accepted
Accepted
```

In [63]:
```
#Find words which are greater than given length k
str = "string is fun in python"
lst=str.split()
k = 3
res=[i for i in lst if len(i) >k]
res
```

Out[63]:
```
['string', 'python']
```

In [64]:
```
#Python program for removing i-th character from a string
str='Peter'
size=3
print(str[:size]+str[size+1:])
```

```
Petr
```

In [68]:
```
#Python program to split and join a string
str='Geeks for Geeks'
lst=str.split()
print(lst)
print(' '.join(lst))
```

```
['Geeks', 'for', 'Geeks']
Geeks for Geeks
```

In [73]:
```
#Python | Check if a given string is binary string or not

str='01010101010'   # try geeks101
b={'0','1'}
c=set(str)
if c==b or c=={'0'} or c=={'1'}:
    print('Yes')
else:
    print('No')
```

```
Yes
```

In [75]:
```
# find the uncommon words
A = 'apple banana mango'
B = 'banana fruits mango'

A=A.split()
B=B.split()
res=[]
for i in A:
    if i not in B:
        res.append(i)
for j in B:
    if j not in A:
        res.append(j)
print(res)
```

```
['apple', 'fruits']
```

In [81]:
```
#Python – Replace duplicate Occurrence in String
str='Gfg is best . Gfg also has Classes now. Classes help understand better'
str_list=str.split()
dup={'Gfg':'It','Classes':'They'}
res=set()
for i,v in enumerate(str_list):
    if v in dup:
        if v not in res:
            res.add(v)
        else:
            str_list[i]=dup[v]
print(' '.join(str_list))
```

```
Gfg is best . It also has Classes now. They help understand better
```

In [86]:
```
#Python – Replace multiple words with K
test_str = 'Geeksforgeeks is best for geeks and CS'
test=test_str.split()
word_list = ["best", 'CS', 'for']
repl_wrd = 'gfg'
for i,v in enumerate(test):
    if v in word_list:
        test[i]=repl_wrd
print(' '.join(test))
```

```
Geeksforgeeks is gfg gfg geeks and gfg
```

In [87]:
```
#Python | Permutation of a given string using inbuilt function
```

```
from itertools import permutations

def allPermutations(str):

     # Get all permutations of string 'ABC'
     permList = permutations(str)

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

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

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

In [89]:
```
# String slicing in Python to rotate a string
s='GeeksforGeeks'
d=2
final=s[d:]+s[:d]
final
```

Out[89]:
```
'eksforGeeksGe'
```

In [94]:
```
#Python – Find all duplicate characters in string
str='hello' #'geeks'
#print(set(str))
res=set()
dup=set()
for i in str:
    if i not in res:
        res.add(i)
    else:
        dup.add(i)
print(dup)
```

```
{'l'}
```

In [95]:
```
#Python – Replace all occurrences of a substring in a string
input_string = "geeksforgeeks"
s1 = "geeks"
s2 = "abcd"
print(input_string.replace(s1,s2))
```

```
abcdforabcd
```

In [ ]: