

# 1806554 Assignment 2 Python

```
In [1]: 1 s = input()
        2 cnt = 0
        3 for i in s:
        4     cnt = cnt + 1
        5 print(cnt)
```

```
ganesh
6
```

```
In [2]: 1 s = input()
        2 print(s[::-1])
```

```
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hsenag
```

```
In [3]: 1 s = input()
        2 rev = s[::-1]
        3 if rev == s:
        4     print("Palindrome")
        5 else:
        6     print("Not palindrome")
```

```
ganesh
Not palindrome
```

In [10]:

```
1  # with library
2  x = input()
3  y = input()
4  ans = x.find(y)
5  if(ans == -1):
6      print("doesnt contain")
7  else:
8      print(f'present at index {ans}')
9
10 # without library
11
12 def index(s, sub):
13     start = 0
14     end = 0
15     while start < len(s):
16         if s[start+end] != sub[end]:
17             start += 1
18             end = 0
19             continue
20         end += 1
21         if end == len(sub):
22             return start
23     return -1
24 ans = index(x,y)
25 print(f'present at index {ans}')
```

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ane

present at index 1

present at index 1

In [7]:

```
1 s = input()
2 cnt,cntn,cnts,cntv = 0,0,0,0
3 for i in range(0,len(s)):
4     x = ord(s[i])
5     if s[i] in "aeiou" :
6         cntv = cntv + 1
7     elif x>37 and x<48:
8         cnts = cnts + 1
9     elif x>58 and x<65:
10        cnts = cnts + 1
11    elif x>48 and x<57:
12        cntn = cntn + 1
13    else:
14        cnt = cnt + 1
15 print(f'vowels = {cntv} , cons = {cnt} , num = {cntn} , special c = {cnt
```

```
ganesh(),
vowels = 2 , cons = 4 , num = 0 , special c = 3
```

In [4]:

```
1  # with lib
2  s = input()
3
4  x = ""
5  for i in s:
6      if i.islower() == True:
7          i = i.upper()
8          x = x + i
9      else:
10         i = i.lower()
11         x = x + i
12 print(x)
13
14 # without lib
15
16 x = ""
17 for i in s:
18     m = ord(i)
19     if (m>=97 and m<=122) == True:
20         m = m - 32
21         x = x + chr(m)
22     else:
23         m = m + 32
24         x = x + chr(m)
25 print(x)
```

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In [18]:

```
1 lst = []
2 n = int(input())
3 for i in range(0,n):
4     x = input()
5     lst.append(str(x))
6 #lst = [str(i) for i in lst]
7 lst.sort()
8 lst = [int(i) if i.isdigit() else i for i in lst ]
9 print(lst)
```

```
5
4
3
2
d
s
[2, 3, 4, 'd', 's']
```

In [18]:

```
1 s = input()
2 x = input()
3 cnt = 0
4 for i in s:
5     if i == x:
6         cnt = cnt + 1
7 print(cnt)
```

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1
```

In [60]:

```
1  #with lib
2  s = input()
3  s = s.replace("is","was")
4  print(s)
5
6  #without lib
7
8  def replstr(orig, old, new):
9      i = 0
10     ans = ''
11     temp = ''
12     for c in orig:
13         if c == old[i]:
14             i += 1
15             temp += c
16         else:
17             i = 0
18             if temp:
19                 ans += temp
20                 temp = ''
21             ans += c
22     if len(temp) == len(old):
23         ans += new
24         temp = ''
25         i = 0
26     else:
27         if temp:
28             ans += temp
29     return ans
30 replstr("India is Great Country","is","was")
31
```

```
India is a Great Country
India was a Great Country
```

```
'India was Great Country'
```

In [49]:

```
1 #with lib
2 s = input()
3 s = s.replace("was","is")
4 print(s)
5
6 #without lib
7
8 def replstr(orig, old, new):
9     i = 0
10    ans = ''
11    temp = ''
12    for c in orig:
13        if c == old[i]:
14            i += 1
15            temp += c
16        else:
17            i = 0
18            if temp:
19                ans += temp
20                temp = ''
21            ans += c
22            if len(temp) == len(old):
23                ans += new
24                temp = ''
25                i = 0
26        else:
27            if temp:
28                ans += temp
29    return ans
30 replstr("India was a Great Country","was","is")
```

India was a Great Country  
India is a Great Country

'India is a Great Country'

In [8]:

```
1 s = []
2 n = int(input())
3 for i in range(0,n):
4     x = input()
5     s.append(x)
6 for i in range(0,len(s)):
7     if i%2==0:
8         print(s[i],end = " ")
```

```
4
India
Stands
For
Unity
India For
```

In [54]:

```
1 s1 = input()
2 s2 = input()
3 ans = ""
4 x = 0
5 y = 0
6 for i in range(0,len(s1+s2)-1):
7     if i%2==0:
8         ans = ans + s1[x]
9         x = x + 1
10    else:
11        ans = ans + s2[y]
12        y = y + 1
13    if len(s1+s2)%2==0:
14        ans = ans + s2[-1]
15    else:
16        ans = ans + s1[-1]
17    print(ans)
```

```
INDIA
patna
IpNaDtInAa
```



In [32]:

```
1 def subset(s,n):
2     for Len in range(1,n + 1):
3         for i in range(n - Len + 1):
4             j = i + Len - 1
5             for k in range(i,j + 1):
6                 print(s[k],end="")
7             print()
8 s = input()
9 subset(s,len(s))
10
```

ganesh  
g  
a  
n  
e  
s  
h  
ga  
an  
ne  
es  
sh  
gan  
ane  
nes  
esh  
gane  
anes  
nesh  
ganes  
anesh  
ganesh

## File Management

In [60]:

```
1 my_file = open("myfile.txt", "w")
2 my_file.write("abc\n")
3 my_file.write("123")
4 my_file = open("myfile.txt")
5 content = my_file.read()
6 my_file.close()
```

```
In [61]: 1 print(content)
```

```
abc  
123
```

```
In [ ]: 1
```

```
In [22]: 1 # my_file = open("test.txt", "w")  
2 # my_file.write("abc\n")  
3 # my_file.write("123")  
4  
5 with open("myfile.txt") as f:  
6     with open("out.txt", "w") as f1:  
7         for line in f:  
8             f1.write(line)  
9 # my_file = open("out.txt")  
10 # content = my_file.read()  
11 # my_file.close()  
12 with open("out.txt") as f:  
13     for line in f:  
14         print(line,end = "")
```

```
abc  
123
```

In [126]:

```
1 import csv
2 with open("info_large.txt") as f:
3     with open("info_names.txt","r") as f1:
4         try:
5             for rows in f1:
6                 # print(rows)
7                 x = csv.reader(f, delimiter=" ")
8                 y = csv.reader(f1,delimiter=" ")
9                 xx = list(x)
10                yy = list(y)
11                x = str(xx[1][0])
12                y = str(yy[0])
13                print(x)
14                if(x==y):
15                    print(x)
16                # print(xx[1][0])
17                # print(yy[0])
18
19                # row = csv.reader(f1, delimiter=" ")
20                # print(f.search(rows))
21                # if next(row) in rows:
22                #     print("its present")
23            except IndexError:
24                pass
25
```

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In [ ]:

1

In [ ]:

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