

1. Python function that takes a list of words and return the longest word and the length of the longest one.

**Solution:**

```
def string_coun():
    strdoc=input('Enter the string')
    strdoc1=strdoc.split() # created a list
    print(strdoc1)
    l=0
    for word in strdoc1:
        if len(word)>l:
            l=len(word)
            lword=word
    print("The lengthiest word in the string", lword,l)

string_coun()
```

2. Python function to remove the nth index character from a nonempty string.

**Solution:**

```
string1= input('Enter the string of characters: ')
number=int(input('enter'))
type(number)
l=len(string1)
st=""
for i in range(0,l):
    if(i!=number):
        st += string1[i]
print(st)
```

3. Python function to get the last part of a string before a specified character.

**Solution:**

```
str1 = "C:/Users/pc/Downloads&Telegram*Desktop"
r1=str1.rsplit()
print(r1)
print(str1.rsplit('*', 1)[0])
```

4. Python function to sort a string lexicographically.

**Solution:**

```
def string_sort(string_str):  
    str1=string_str.split()  
    str1.sort()  
    for i in str1:  
        print(i)
```

```
string_sort('my name is sucharitha')
```

5. Python function to remove spaces from a given string.

**Solution:**

```
def string_remove(string_str):  
    return string_str.replace(" ","")
```

```
string_str= 'my name is sahil'  
print(string_remove(string_str))
```