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

In [47]:
```
list1 = ['uma','pavan','kethavarapu']
```

In [58]:
```
def str_max(list1):
    str_max = 0
    for i in list1:
        if len(i) > str_max:
            str_max = len(i)
            final_str = i
    print('Maximum Length String Is',final_str, 'And Length Is',len(final_str))
```

In [59]:
```
str_max(['Uma','Pavan','Kethavarapu'])
```

```
Maximum Length String Is Kethavarapu And Length Is 11
```

In [60]:
```
str_max(['JNTUH','Data Science','Uma'])
```

```
Maximum Length String Is Data Science And Length Is 12
```

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

In [43]:
```
def str_rem(str1,n):
    nstr1 = ''
    for i in range(len(str1)):
        if i!=n:
            nstr1 = nstr1+str1[i]
    print('Updated String :',nstr1)
```

In [44]:
```
str_rem('Python',2)
```

```
Updated String : Pyhon
```

In [45]:
```
str_rem('JNTUH',4)
```

```
Updated String : JNTU
```

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

In [109]:
```
str1 = 'Python Usage Is Simple'
split_word = 'Usage'
rem_str1 = str1.partition(split_word)[2]
print('Resultant String :',rem_str1)
```

```
Resultant String :  Is Simple
```

4. Python function to sort a string lexicographically.

In [73]:
```
def str_lexi(str1):
    text1 = str1.split()
    text1.sort()
    sort_str=''
    for ele in text1:
        sort_str= sort_str+ele+" "
    return sort_str
```

In [75]:
```
str_lexi('David is Eating Apple')
```

Out[75]:
```
'Apple David Eating is '
```

In [76]:
```
str_lexi('Pavan can be also known as Kumar')
```

Out[76]:
```
'Kumar Pavan also as be can known '
```

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

In [105]:
```
def str_spc(str1):
    new_str1 = ""
    for i in str1:
        if i==' ':
            pass
        else:
            new_str1+=i

    return new_str1
```

In [106]:
```
print(str_spc('Uma Pavan'))
```

```
UmaPavan
```

In [107]:
```
print(str_spc('JNTUH Data Science'))
```

```
JNTUHDataScience
```