ASSIGNMENT 3

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

In [22]:
```
def longestLength(words):
    finalList = []

    for word in words:
        finalList.append((len(word), word))

    finalList.sort()

    print("The word with the longest length is:", finalList[-1][1],
          " and length is ", len(finalList[-1][1]))


# input
a = ["one", "two", "third", "four"]
longestLength(a)
```

```
The word with the longest length is: third  and length is  5
```

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

In [23]:
```
def remove_char(str, n):
      first_part = str[:n]
      last_part = str[n+1:]
      return first_part + last_part
```

In [25]:
```
remove_char('abcde',0)
```

Out[25]:
```
'bcde'
```

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

In [27]:
```
def last_String(str):
    string = input('Enter any string: ')
    length = len(string)
    last_char = string[length-1]
    print('Last character:', last_char)
```

In [29]:
```
last_String(s)
```

```
Enter any string: hyderabad
Last character: d
```

4. Python function to sort a string lexicographically.

In [36]:
```
def lexicographi_sort(s):
    return sorted(sorted(s), key=str.upper)

#next
lexicographi_sort('hyderabad')
```

Out[36]:
```
['a', 'a', 'b', 'd', 'd', 'e', 'h', 'r', 'y']
```

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

In [38]:
```
def remove(string):
    return string.replace(" ", "")
#test
s='h g h'
remove(s)
```

Out[38]:
```
'hgh'
```