

Assignment 3.1 Python function that takes a list of words and return the longest word and the length of the longest one.

```
In [21]: def long_word_test(lst_local):
    local_length=0
    for word in lst_local:
        print(word)
        length=len(word)
        if length> local_length:
            longest_word=word
            local_length=length
        print("length of the string :",length)
    print("Longest word is ",longest_word)
lst = []

# number of elements as input
n = int(input("Enter number of elements : "))

# iterating till the range
for i in range(0, n):
    ele = input("Enter the word: ")
    lst.append(ele)

print("Entered list of words is ",lst)

long_word_test(lst)
```

```
Enter number of elements : 3
Enter the word: machine learning
Enter the word: jeeligam
Enter the word: jeeligam
Entered list of words is ['machine learning', 'jeeligam', 'jeeligam']
machine learning
length of the string : 16
jeeligam
length of the string : 8
jeeligam
length of the string : 8
Longest word is machine learning
```

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

```
In [24]: def remove_char(str, n):
    first_part = str[:n]
    last_part = str[n+1:]
    return first_part + last_part
print(remove_char('VenkateshJ', 1))
print(remove_char('JVVenkatesh', 3))
print(remove_char('JVVenkatTesh', 7))
```

```
VnkateshJ
JVVenkatesh
JVVenkatesh
```

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

```
In [39]: txt =input("Enter a String:")
char = input("Enter a character :")
x = txt.find(char)
if x== -1:
    print ("Character not found in the word")
else:
    print("found at",x,"last part is :",txt[x+1:])
```

```
Enter a String:JVenkatesh
Enter a character :J
found at 0 last part is : Venkatesh
```

1. Python function to sort a string lexicographically.

```
In [42]: word =input("Enter a String:")
sorted_word = ''.join(sorted(word, key=str.lower))
print("Sorted word is ", sorted_word)
```

```
Enter a String:Venkatesh Jeeligam
Sorted word is  aaeeeeeghiJklmnstV
```

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

```
In [44]: def remove(string):
    return string.replace(" ", "")

# Driver Program
word =input("Enter a String:")
print(remove(word))
```

```
Enter a String:Jeeligam Venka tesh
JeeligamVenkatesh
```