

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

```
# function to find the longest
# length in the list
def longestLength(a):
    max1 = len(a[0])
    temp = a[0]

    # for loop to traverse the list
    for i in a:
        if(len(i) > max1):

            max1 = len(i)
            temp = i

    print("The word with the longest length is:", temp,
          " and length is ", max1)

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

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

```
# declaring a string variable
str = "assignment."

# index to remove character at
n = 4

# declaring an empty string variable for storing modified string
modified_str = ""

# iterating over the string
for char in range(0, len(str)):

    # checking if the char index is equivalent to n
    if(char != n):
        # append original string character
        modified_str += str[char]

print("Modified string after removing ", n, "th character ")
print(modified_str)
```

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

```
str1 = 'https://www.JNTUHASSIGNMENTS.com/python-exercises/string'  
print(str1.rsplit('/', 1)[0])  
print(str1.rsplit('-', 1)[0])
```

4. Python function to sort a string lexicographically.

```
def lexicographi_sort(s):  
    return sorted(sorted(s), key=str.upper)  
print(lexicographi_sort('python'))  
print(lexicographi_sort('language'))
```

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

```
def remove(string):  
    return "".join(string.split())  
string = ' a p p l e '  
print(remove(string))
```