

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

```
def find_longest_word(words_list):
    word_len = []
    for n in words_list:
        word_len.append((len(n), n))
    word_len.sort()
    return word_len[-1][0], word_len[-1][1]
result = find_longest_word(["jntu", "hyderabad", "2022"])
print("\nLongest word: ",result[1])
print("Length of the longest word: ",result[0])
```

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

```
def remove_char(str, n):
    first_part = str[:n]
    last_part = str[n+1:]
    return first_part + last_part
print(remove_char('Python', 0))
print(remove_char('Python', 3))
print(remove_char('Python', 5))
```

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

```
str1 = 'JNTU/SDCE/python-program/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('pythonprogramming'))
print(lexicographi_sort('jntuhyderabad'))
```

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

```
import re
text1 = 'Python program '
print("Original string:",text1)
print("Without extra spaces:",re.sub(r'\s+', "",text1))
```