

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

Ans: def find_longest_word(words):

```
    longest_word = ""

    longest_length = 0

    for word in words:

        if len(word) > longest_length:

            longest_word = word

            longest_length = len(word)

    return longest_word, longest_length
```

Example usage:

```
word_list = ["apple", "banana", "orange", "kiwi"]

longest_word, length = find_longest_word(word_list)

print("Longest word:", longest_word)

print("Length:", length)
```

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

Ans: def remove_nth_character(string, n):

```
    return string[:n] + string[n+1:]
```

Example usage:

```
text = "Hello, World!"

new_text = remove_nth_character(text, 4) # Remove the character at index 4

print(new_text)
```

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

Ans: def get_last_part(string, character):

```
    index = string.rfind(character)
```

```
    if index != -1:
        return string[:index]

    return string

# Example usage:

text = "Hello, World!"

last_part = get_last_part(text, ",")

print(last_part)
```

4. Python function to sort a string lexicographically.

```
Ans: def sort_string(string):
    return ''.join(sorted(string))

# Example usage:

text = "python"

sorted_text = sort_string(text)

print(sorted_text)
```

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

```
Ans: def remove_spaces(string):
    return string.replace(" ", "")

# Example usage:

text = "Hello, World!"

new_text = remove_spaces(text)

print(new_text)
```