

1) Python function that takes a list of words & return the longest word & 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(["PHP", "Exercises",  
                             "Backend"])
```

```
print("\nLongest word: ", result[1])
```

```
print("Length of the longest word: ", result[0])
```

2) Python function to remove the nth index character from a non-empty 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) Write a Python program to get the last part of a string before a specified character.

```
str1 = 'Data science with python programming /  
third - assignments / string'
```

```
print(str1.split('/', 1)[0])
```

```
print(str1.split('-', 1)[0])
```

4) Python function to sort a string lexicographically.

```
def lexicographi-sort(s):  
    return sorted(sorted(s), key=str.upper)
```

```
print(lexicographi-sort('Susheel'))  
print(lexicographi-sort('quickgreen'))
```

5) Python function to remove spaces from a given string

```
strip()
```