

①

```
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("Longest word:", result[1])
```

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

Output:

Longest word: Exercises

length of the longest word: 9

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('hyderabad', 5))
```

Output :-

- ongress
- Pyton
- hyderabad

→ Python function to sort a string lexicographically.

```
def lexicographi_sort(s):  
    return sorted(sorted(s), key = str.upper)
```

```
print(lexicographi_sort('American2'))  
print(lexicographi_sort('hyderabad'))
```

Python - function to remove spaces from a given string.

```
def remove(string):  
    return "".join(string.split())
```

```
string = g e e k 'g e e k'  
print(remove(string))
```

} using
split(),
join()

⇒ Remove spaces from a string using
Python regex:

```
import re
```

```
def remove(string):
```

```
    pattern = re.compile(r'\s+')
```

```
    return re.sub(pattern, "", string)
```

```
string = 'g e e k'
```

```
print(remove(string))
```