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In [1]: # 1. Python function that takes a list of words and return the longest word and the length of the longest one.
sentence = input("Enter sentence: ")

# Finding longest word
longest = max(sentence.split(), key=len)

# Displaying longest word
print("Longest word is: ", longest)
print("And its length is: ", len(longest))
```

```
Enter sentence: welcome to home
Longest word is: welcome
And its length is: 7
```

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In [3]: # 2. Python function to remove the nth index character from a nonempty string.
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```
def remove_char(str, n):
    a = str[:n]
    b = str[n+1:]
    return a + b
print(remove_char('Welcome', 2))
print(remove_char('Welcome', 5))
```

```
Wecome
Welcoe
```

```
In [4]: # 3. Python function to get the last part of a string before a specified character.
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```
str1 = input("Enter the string: ")
print(str1.rsplit(' ', 1)[0])
```

```
Enter the string: welcome to python programming
welcome to python
```

```
In [5]: # 4. Python function to sort a string lexicographically
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```
def lexicographi_sort(s):
    return sorted(sorted(s))
s1=input("Enter the stentence: ")
lexicographi_sort(s1)
```

```
Enter the stentence: Hello friends!
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Out[5]: [' ', '!', 'H', 'd', 'e', 'e', 'f', 'i', 'l', 'l', 'n', 'o', 'r', 's']
```

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In [6]: # 5. Python function to remove spaces from a given string.
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```
def remove(string):
    return string.replace(" ", "")

string = input("Enter your string: ")
print(remove(string))
```

```
Enter your string: Welcome to all!
Welcometoall!
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In [ ]:
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