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In [1]: #Program to find the Longest word and Length of Longest one
        #defining program

def longlen(a):
    l = 0 #variables initialising for length, word, words list, same length words
    w = " "
    same = []
    samelen = 0
    word = a.split()
    for i in word: #for loop for traversing in the array
        if(len(i) > l):
            l = len(i)
            w = i
    print("The length of longest word is:", l) #printing the length of longest word

    for i in word:
        if(len(i) >= l):
            samelen+=1
            same.append(i) #adding longest words of same length to new list
            b = len(same)
    if(b > 1):
        print("there are", samelen, "longest words of similar length and they are", same)
        #output of more than one result
    else:
        print("there is", samelen, "longest word and it is", same)
        #output of unique result

# program input
a = input("Enter a string: ") #input from user
longlen(a)

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Enter a string: The quick brown fox jumps over the lazy dog
The length of longest word is: 5
there are 3 longest words of similar length and they are ['quick', 'brown', 'jumps']

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In [12]: #program to remove nthindex of a non empty string

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#defining program
def remove_nindex(string, n):
    first = string[:n]
    last = string[n+1:]
    print(first + last)

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#taking user input and checking if string is an empty input
a = input("enter a string: ")
if(len(a)>0):
    b = int(input("enter index number to be removed: "))
    remove_nindex(a,b)
else:
    print("Empty string")

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enter a string: Pyython
enter index number to be removed: 2
Python

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In [3]: *#progam to get Last part of string before specific character*

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#taking user input
a = input("enter a string: ")
b = input("enter the specific character: ")

#part of string before first occurrence
first_part = a.split(b, 1)[0]
print("part of string before first occurence is ",first_part)

#part of string before Last occurrence
last_part = a.rsplit(b, 1)[0]
print("part of string before first occurence is ",last_part)

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enter a string: The\quick\brown\fox\jumps\over\the\lazy\dog
enter the specific character: \
part of string before first occurence is The
part of string before first occurence is The\quick\brown\fox\jumps\over\the\lazy

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In [4]: *# program to sort a string in Lexicographically i.e., dictionary order*

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#defining the program
def sort_Lg(string):
    words = string.split()

#sorting the strings directly will give priority to capital letters in the strings of the list hence,
#converting all the strings in the list to lower case
words_lower = []
for word in words:
    words_lower.append(word.lower())

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#sorting and printing the strings in the sentence Lexicographically
words_lower.sort()
for i in words_lower:
    print(i)

#taking user input
string = input("Enter your string: ")
sort_Lg(string)
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Enter your string: The quick brown fox jumps over the lazy dog
brown
dog
fox
jumps
lazy
over
quick
the
the
```

In [88]: *#program to remove spaces from a given string*

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#defining function
def remove_Space(string):
    a = string.replace(" ", "")
    print(a)

#taking user input
s = input("enter the string to remove spaces: ")
remove_Space(s)
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enter the string to remove spaces: The quick brown fox jumps over the lazy dog
Thequickbrownfoxjumpsoverthelazydog
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