

Extract the domain from an email address.

```
def extract_domain(email):  
    domain = ''  
    for i in range(len(email)):  
        if email[i] == '@':  
            domain = email[i+1:]  
            break  
    return domain  
extract_domain('user@nikesh.com')
```

[61] ✓ 0.0s

Python

... 'nikesh.com'

Find the length of the longest word in a sentence.

```
def longest_word(text):  
    words = text.split()  
    max_length = 0  
  
    for word in words:  
        if len(word) > max_length:  
            max_length = len(word)  
    return max_length  
  
longest_word('hi good morning')
```

[3] ✓ 0.0s

Python

... 7

Capitalize the first letter of each word without using title().

```
def title(text):  
    return ' '.join(char[0].upper()+char[1:] for char in text.split())  
  
title('nikesh singh')
```

[66]

✓ 0.0s

Python

... 'Nikesh Singh'

Remove specific characters from a string.



```
def remove_char_from_words(text, word_to_remove):  
    result = ''  
    for char in text:  
        if char not in word_to_remove:  
            result += char  
    return result
```

```
remove_char_from_words('nikesh singh', 'n')
```

[67] ✓ 0.0s

Python

... 'ikesh sigh'

Count the number of spaces in a string.

```
def count_space(text):  
    space = 0  
    for i in text:  
        if i == ' ':  
            space += 1  
    return space  
  
count_space('hello good morning')
```

[4] ✓ 0.0s

Python

... 2

Convert all consonants to uppercase.

```
def convert_consonants_upper(text):  
    result = ''  
  
    for char in text:  
        if char.lower() not in 'aeiou':  
            result += char.upper()  
        else:  
            result += char  
    return result  
  
convert_consonants_upper('hello good morning')
```

✓ 0.0s

Python

'HeLlO GoOd MoRniNG'

Insert dashes between each character in a string.

```
def dashes_between_each_char(text):  
    result = ''  
    for i in range(len(text)):  
        result += text[i]  
        if i != len(text) - 1:  
            result += '-'  
    return result  
dashes_between_each_char('Nikesh')
```

✓ 0.0s

Python

'N-i-k-e-s-h'

Find the longest substring without repeating characters.

```
def long_sub_without_repeat(text):  
    longest = ''  
    current = ''  
  
    for char in text:  
        if char not in current:  
            current += char  
        else:  
            if len(current) > len(longest):  
                longest = current  
            current = char  
    if len(current) > len(longest):  
        longest = current  
    return longest
```

```
long_sub_without_repeat('abcabcbb')
```

✓ 0.0s

Python

'abc'

Check if a string contains only ASCII characters.

```
def check_ascii(text):  
    is_ascii = True  
    for char in text:  
        if ord(char) > 127:  
            is_ascii = False  
            break  
    return is_ascii
```

```
check_ascii('Hello Nikesh')
```

```
# alternative way-----
```

```
def check_ascii(text):  
    return all(ord(char) < 127 for char in text)  
check_ascii('Hello Nikesh')
```

✓ 0.0s

Python

True

Reverse words in a string.

```
def reverse_words(text):  
    words = text.split()  
    result = ''  
  
    for i in range(len(words)-1,-1,-1):  
        result += words[i] + ' '  
    return result  
reverse_words('nikesh singh ')
```

alternative way-----

```
def reverse_words(text):  
    return ' '.join(text.split()[::-1])  
  
reverse_words('singh nikesh')
```

✓ 0.0s

Python

'nikesh singh'

Count the number of words in a string.

```
def count_number_words(text):  
    count = 0  
    for word in text.split():  
        count +=1  
    return count
```

```
count_number_words('Hello Nikesh how are you')
```

```
# smart way to get the same output-----
```

```
def count_number_words(text):  
    return len(text.split())
```

```
count_number_words('Hello Nikesh')
```

✓ 0.0s

Python

Find the longest repeating character sequence.

```
def long_rept_char_sequence(text):  
    max_count = 0  
    current_count = 1  
  
    for i in range(1, len(text)):  
        if text[i] == text[i-1]:  
            current_count += 1  
        else:  
            if current_count > max_count:  
                max_count = current_count  
            current_count = 1  
  
    if current_count > max_count:  
        max_count = current_count  
    return max_count  
  
long_rept_char_sequence('aaabbcccccdddddeeee')
```

✓ 0.0s

Python

Remove all punctuation from a string.

```
def remove_punc(text):  
    result = ''  
    for char in text:  
        if char.isalnum() or char == ' ':  
            result += char  
    return result
```

```
remove_punc("Hello, Nikesh!")
```

smart way to get the same output-----

```
def remove_punc(text):  
    return ''.join(char for char in text if char.isalnum() or char == ' ')  
remove_punc("Hello, Nikesh!")
```

✓ 0.0s

Python

'Hello Nikesh'

Count the occurrences of each word in a string.

```
def count_words(text):  
    word_count = {}  
    words = text.split()  
  
    for word in words:  
        if word in word_count:  
            word_count[word] += 1  
        else:  
            word_count[word] = 1  
    return word_count
```

```
count_words("this is a test this is only a test")
```

```
# smart way to get the same output-----
```

```
def count_words(text):  
    return {word: text.split().count(word) for word in set(text.split())}
```

```
count_words("this is a test this is only a test")
```

✓ 0.0s

Python

```
{'test': 2, 'this': 2, 'is': 2, 'a': 2, 'only': 1}
```

Remove duplicate words from a string.

```
def remove_duplicate(text):  
    word = text.split()  
    result = []  
    seen = set()  
  
    for i in word:  
        if i not in seen:  
            result.append(i)  
            seen.add(i)  
    return ' '.join(result)
```

```
remove_duplicate('hello nimesh hello nimesh')
```

```
# smart way to get the same output-----
```

```
def remove_duplicate(text):  
    return ' '.join(dict.fromkeys(text.split()))  
remove_duplicate('hello nimesh hello nimesh')
```

✓ 0.0s

Python

'hello nimesh'

Reverse each word in a string.

```
def reverse_each_words(text):  
    result = ''  
    words = text.split()  
    for word in words:  
        result += word[::-1] + ' '  
    return result
```

smart way to get the same output-----

```
def reverse_each_words(text):  
    return ' '.join(word[::-1] for word in text.split())
```

```
reverse_each_words('Nikesh kumar singh')
```

✓ 0.0s

Python

```
'hsekiN ramuk hgnis'
```


Check if a string is a palindrome (ignoring spaces).

```
def check_palindrome(text):  
    clean = ''  
    for char in text:  
        if char.isalnum():  
            clean +=char.lower()  
    return clean == clean[::-1]  
check_palindrome("madam in eden im adam")
```

✓ 0.0s

Python

True

Convert lowercase vowels to uppercase.

```
def lower_case_vowels_to_upper(text):  
    words = text  
    result = ''  
    for char in words:  
        if char in 'aeiou':  
            result += char.upper()  
        else:  
            result += char  
    return result
```

```
lower_case_vowels_to_upper('nikesh singh')
```

```
# smart way to get the same output-----
```

```
def lower_case_vowels_to_upper(text):  
    return ''.join(char.upper() if char in 'aeiou' else char for char in text)
```

```
lower_case_vowels_to_upper('nikesh singh')
```

✓ 0.0s

Python

'nIkEsh sIngH'

Find the first non-repeating character in a string.

```
def non_rept_char(text):  
    result = None  
  
    for char in text:  
        if text.count(char) == 1:  
            return char  
    return None
```

```
non_rept_char('swiws')
```

✓ 0.0s

Python

'i'

Calculate the frequency of vowels in a string.

```
def count_vowels(text):  
    return {char: text.count(char) for char in text if char.lower() in 'aeiou' }  
  
count_vowels('Nikesh singh')
```

✓ 0.0s

Python

```
{'i': 2, 'e': 1}
```