How do you find the length of a string in Python without using len()?

```python
def find_length(strings):
    count = 0
    for _ in strings:
        count +=1
    return count
find_length('Nikesh')
```

[2] Python

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How do you convert a string to uppercase without using upper()?

```python
def to_upper(alpha):
    result = ''
    for char in alpha:
        if 'a' <= char <= 'z':
            result += chr(ord(char) - 32)
        else:
            result += char
    return result

to_upper('nikesh')
```

[3] Python

```
'NIKESH'
```

How do you convert a string to lowercase without using lower()?

```python
def to_lower(strings):
    result = ''
    for char in strings:
        if 'A' <= char <= 'Z':
            result += chr(ord(char) + 32)
        else:
            result += char
    return result

to_lower('NikeSH')
```

[4] Python

```
'nikesh'
```

How do you replace a substring in a string without using replace()?

```python
def replace_strings(strings,old,new):
    result = ''
    i = 0
    while i in range(len(strings)):
        if strings[i:i+ len(old)]== old:
            result +=new
            i += len(old)
        else:
            result += strings[i]
            i += 1
    return result
replace_strings('Hello python how are you','python','Nikesh')
```

[23] Python

```
'Hello Nikesh how are you'
```

How do you check if a string starts with a certain substring without using startswith()?

```python
def check_start_with(string,substring):
    if len(substring) > len(string):
        return False
    for i in range(len(substring)):
        if string[i] != substring[i]:
            return False
    return True
check_start_with('Hello Nikesh','Hello')
```

[30] Python

```
True
```

How do you check if a string ends with a certain substring without using endswith()?

```python
def check_end_with(string,end_string):
    if len(string) < len(end_string):
        return False
    start = len(string) - len(end_string)
    for i in range(len(end_string)):
        if string[start+i] != end_string[i]:
            return False
    return True

check_end_with('Hello Nikesh','Nikesh')
```

[4] Python

```
True
```

How do you split a string by spaces without using split()?

```
def split_space(string):
    result = []
    word = ''
    for char in string:
        if char == ' ':
            if word:
                result.append(word)
                word = ''
        else:
            word +=char
    if word:
        result.append(word)
    return result

split_space('Nikesh Kumar Singh')
```

[10] Python

```
['Nikesh', 'Kumar', 'Singh']
```

How do you join a list of strings into a single string without using join()?

```
def join_string(words):
    result = ''
    for i in range(len(words)):
        result += words[i]
        if i < len(words) -1:
            result += ' '
    return result

join_string(['apple mango banana'])
```

[17] Python

```
'apple mango banana'
```

How do you find the position of a substring in a string without using find()

```python
def find_substring_position(string1,substring):
    for i in range(len(string1)-len(substring)+1):
        if string1[i:i + len(substring)] == substring:
            return i
    return -1

find_substring_position('nikesh singh','sh')
```

[18] Python

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swap upper to lower and lower to upper

```python
def swapcase(string):
    result =''
    for char in string:
        if 'a' <= char <= 'z':
            result += chr(ord(char)-32)
        elif 'A' <= char <= 'Z':
            result += chr(ord(char) + 32)
        else:
            result += char
    return result

swapcase('NikESh')
```

[19] Python

```
'nIKesH'
```

Remove all spaces

```
def remove_space(s):
    result =''
    for char in s:
        if char != ' ':
            result += char
    return result

remove_space('n i k e s h')
```

[2] ✓ 0.0s Python

```
'nikesh'
```

Check if String is Numeric

```python
def check_numeric(num):
    numeric_string = str(num)
    for char in numeric_string:
        if not ('0' <= char <='9'):
            return False
    return True

check_numeric(92768)
```

[27] ✓ 0.0s Python

```
True
```

Reverse a String

```
def reverse_string(string1):
    result = ''
    for i in range(len(string1)-1,-1,-1):
        result +=string1[i]
    return result

reverse_string('hsekin')
```

[22] ✓ 0.0s Python

```
'nikesh'
```

Capitalize First Letter

```
def capitalize_first(string1):
    if 'a' <= string1[0] <= 'z':
        return chr(ord(string1[0])- 32) + string1[1:]

capitalize_first('nikesh singh')
```

[24] ✓ 0.0s Python

```
'Nikesh singh'
```