

```
In [1]: letter = 'P'
print(letter)
print(len(letter))
greeting = 'Hello, World!'
print(greeting)
print(len(greeting))
sentence = "I hope you are enjoying 30 days of python challenge"
print(sentence)
```

P  
1  
Hello, World!  
13  
I hope you are enjoying 30 days of python challenge

```
In [2]: multiline_string = '''I am a teacher and enjoy teaching.
I didn't find anything as rewarding as empowering people.
That is why I created 30 days of python.'''
print(multiline_string)
multiline_string = """I am a teacher and enjoy teaching.
I didn't find anything as rewarding as empowering people.
That is why I created 30 days of python."""
print(multiline_string)
```

I am a teacher and enjoy teaching.  
I didn't find anything as rewarding as empowering people.  
That is why I created 30 days of python.  
I am a teacher and enjoy teaching.  
I didn't find anything as rewarding as empowering people.  
That is why I created 30 days of python.

```
In [3]: first_name = 'Dillep'
last_name = 'Vadapalli'
space = ' '
full_name = first_name + space + last_name
print(full_name)
print(len(first_name))
print(len(last_name))
print(len(first_name) > len(last_name))
print(len(full_name))
```

Dillep Vadapalli  
6  
9  
False  
16

```
In [4]: language = 'Python'
a,b,c,d,e,f = language
print(a)
print(b)
print(c)
print(d)
print(e)
print(f)
```

P  
y  
t  
h  
o  
n

```
In [5]: language = 'Python'
first_letter = language[0]
print(first_letter)
second_letter = language[1]
print(second_letter)
last_index = len(language) - 1
last_letter = language[last_index]
print(last_letter)
```

P  
y  
n

```
In [6]: language = 'Python'
last_letter = language[-1]
print(last_letter)
second_last = language[-2]
print(second_last)
```

n  
o

```
In [7]: language = 'Python'
first_three = language[0:3]
last_three = language[3:6]
print(last_three)
```

hon

```
In [8]: last_three = language[-3:]
print(last_three)
last_three = language[3:]
print(last_three)
```

hon  
hon

```
In [9]: language = 'Python'
pto = language[0:6:2]
print(pto)
```

Pto

```
In [10]: print('I hope every one enjoying the python challenge.\nDo you ?')
print('Days\tTopics\tExercises')
print('Day 1\t3\t5')
print('Day 2\t3\t5')
print('Day 3\t3\t5')
print('Day 4\t3\t5')
print('This is a back slash symbol (\\)')
print('In every programming language it starts with \"Hello, World!\"')
```

I hope every one enjoying the python challenge.

Do you ?

Days	Topics	Exercises
------	--------	-----------

Day 1	3	5
-------	---	---

Day 2	3	5
-------	---	---

Day 3	3	5
-------	---	---

Day 4	3	5
-------	---	---

This is a back slash symbol (\)

In every programming language it starts with "Hello, World!"

```
In [11]: challenge = 'thirty days of python'
print(challenge.capitalize())
```

Thirty days of python

```
In [12]: challenge = 'thirty days of python'
print(challenge.count('y'))
print(challenge.count('y', 7, 14))
print(challenge.count('th'))
```

3

1

2

```
In [13]: challenge = 'thirty days of python'
print(challenge.endswith('on'))
print(challenge.endswith('tion'))
```

True

False

```
In [14]: challenge = 'thirty\tdays\tof\tpython'
print(challenge.expandtabs())
print(challenge.expandtabs(10))
```

thirty days of python

thirty days of python

```
In [15]: challenge = 'thirty days of python'
print(challenge.find('y'))
print(challenge.find('th'))
```

5

0

```
In [17]: first_name = 'Saimounika'
last_name = 'Bondalapati'
job = 'teacher'
country = 'Guntur'
sentence = 'I am {} {}. I am a {}. I live in {}.'.format(first_name, last_name,
print(sentence)
```

I am Saimounika Bondalapati. I am a teacher. I live in Guntur.

```
In [18]: radius = 10
pi = 3.14
area = pi
result = 'The area of circle with {} is {}'.format(str(radius), str(area))
print(result)
```

The area of circle with 10 is 3.14

```
In [19]: challenge = 'thirty days of python'
print(challenge.find('y'))
print(challenge.find('th'))
```

5  
0

```
In [20]: challenge = 'ThirtyDaysPython'
print(challenge.isalnum())
```

True

```
In [21]: challenge = '30DaysPython'
print(challenge.isalnum())
```

True

```
In [22]: challenge = 'thirty days of python'
print(challenge.isalnum())
```

False

```
In [23]: challenge = 'thirty days of python 2019'
print(challenge.isalnum())
```

False

```
In [25]: challenge = 'thirty days of python'
print(challenge.isalpha())
num = '123'
print(num.isalpha())
```

False

False

```
In [26]: challenge = 'thirty days of python'
print(challenge.find('y'))
print(challenge.find('th'))
```

5  
0

```
In [27]: challenge = 'Thirty'
print(challenge.isdigit())
challenge = '30'
print(challenge.isdigit())
```

False

```
-----
AttributeError                                Traceback (most recent call last)
Cell In[27], line 4
      2 print(challenge.isdigit())
      3 challenge = '30'
----> 4 print(challenge.isdigit())

AttributeError: 'str' object has no attribute 'digit'
```

```
In [28]: num = '10'
print(num.isdecimal())
num = '10.5'
print(num.isdecimal())
```

True  
False

```
In [29]: challenge = '30DaysOfPython'
print(challenge.isidentifier())
challenge = 'thirty_days_of_python'
print(challenge.isidentifier())
```

False  
True

```
In [30]: challenge = 'thirty days of python'
print(challenge.islower())
challenge = 'Thirty days of python'
print(challenge.islower())
```

True  
False

```
In [31]: challenge = 'thirty days of python'
print(challenge.isupper())
challenge = 'THIRTY DAYS OF PYTHON'
print(challenge.isupper())
```

False  
True

```
In [32]: num = '10'
print(num.isnumeric())
print('ten'.isnumeric())
```

True  
False

```
In [33]: web_tech = ['HTML', 'CSS', 'JavaScript', 'React']
result = '#'.join(web_tech)
print(result)
```

HTML#, CSS#, JavaScript#, React

```
In [35]: challenge = ' thirty days of python '
print(challenge.strip('y'))
```

thirty days of python

```
In [36]: challenge = 'thirty days of python'
print(challenge.replace('python', 'coding'))
```

thirty days of coding

```
In [37]: challenge = 'thirty days of python'
print(challenge.split())
```

['thirty', 'days', 'of', 'python']

```
In [38]: challenge = 'thirty days of python'
print(challenge.title())
```

Thirty Days Of Python

```
In [39]: challenge = 'thirty days of python'
print(challenge.swapcase())
```

```
challenge = 'Thirty Days Of Python'  
print(challenge.swapcase())
```

THIRTY DAYS OF PYTHON

tHIRTy dAYS oF pYTHON

```
In [40]: challenge = 'thirty days of python'  
print(challenge.startswith('thirty'))  
challenge = '30 days of python'  
print(challenge.startswith('thirty'))
```

True

False

In [ ]: