

untitled3-1

March 4, 2025

```
[2]: letter = 'P'  
print(letter)  
print(len(letter))
```

P
1

```
[4]: greeting = 'Hello, World!'  
print(greeting)  
print(len(greeting))
```

Hello, World!
13

```
[6]: 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.

```
[8]: first_name = 'Dhanwantari'  
last_name = 'Devre'  
space = ' '  
full_name = first_name + space + last_name  
print(full_name)
```

Dhanwantari Devre

```
[10]: language = 'Python'  
a,b,c,d,e,f = language # unpacking sequence characters into variables  
print(a)  
print(b)  
print(c)  
print(d)  
print(e)
```

```
print(f)
```

P
y
t
h
o
n

```
[12]: language = 'Python'  
first_letter = language[0]  
print(first_letter)
```

P

```
[14]: second_letter = language[1]  
print(second_letter)
```

y

```
[16]: last_index = len(language) - 1  
last_letter = language[last_index]  
print(last_letter)
```

n

```
[18]: language = 'Python'  
last_letter = language[-1]  
print(last_letter)
```

n

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

hon

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

hon
hon

```
[24]: language = 'Python'
      pto = language[0:6:2] #
      print(pto)
```

Pto

```
[26]: print('I hope every one enjoying the python challenge.\nDo you ?') # line break
      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 (\\)') # To write a back slash
      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!"

```
[30]: challenge = 'thirty days of python'
      print(challenge.capitalize()) #Converts the first character the string to
      ↪Capital Letter
```

Thirty days of python

```
[32]: challenge = 'thirty days of python'
      print(challenge.count('y')) # 3
      print(challenge.count('y', 7, 14)) # 1
      print(challenge.count('th')) # 2`
```

3

1

2

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

True

False

```
[36]: challenge = 'thirty\tdays\tof\tpython'
      #Replaces tab character with spaces, default tab size is 8.
      #It takes tab size argument
      print(challenge.expandtabs())
      print(challenge.expandtabs(10))
```

```
thirty  days    of      python
thirty   days      of        python
```

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

```
5
0
```

```
[40]: first_name = 'Dhanwantari'
      last_name = 'Devre'
      job = 'Teacher'
      country = 'Mumbai'
      sentence = 'I am {} {}. I am a {}. I live in {}.'.format(first_name, last_name,
      ↪job, country)
      print(sentence)
```

```
I am Dhanwantari Devre. I am a Teacher. I live in Mumbai.
```

```
[42]: radius = 10
      pi = 3.14
      area = pi # radius ## 2
      result = 'The area of circle with {} is {}'.format(str(radius), str(area))
      print(result) # The area of circle with 10 is 314.0
```

```
The area of circle with 10 is 3.14
```

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

```
5
0
```

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

```
True
```

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

True

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

      challenge = 'thirty days of python 2019'
      print(challenge.isalnum())
```

False

False

```
[52]: challenge = 'thirty days of python'
      print(challenge.isalpha()) # True
      num = '123'
      print(num.isalpha())
```

False

False

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

5

0

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

False

True

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

True

False

```
[62]: #Checks for valid identifier means it check if a string is a valid variable name
      challenge = '30DaysOfPython'
      print(challenge.isidentifier())
      challenge = 'thirty_days_of_python'
      print(challenge.isidentifier())
```

False
True

```
[64]: challenge = 'thirty days of python'
      print(challenge.islower()) # True
      challenge = 'Thirty days of python'
      print(challenge.islower()) # False
```

True
False

```
[66]: challenge = 'thirty days of python'
      print(challenge.isupper()) # False
      challenge = 'THIRTY DAYS OF PYTHON'
      print(challenge.isupper()) # True
```

False
True

```
[68]: num = '10'
      print(num.isnumeric())      # True
      print('ten'.isnumeric())    # False
```

True
False

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

HTML, CSS, JavaScript, React

```
[76]: challenge = 'thirty days of python '
      print(challenge.strip('y')) # 5
```

thirty days of python

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

thirty days of coding

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

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

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

Thirty Days Of Python

```
[86]: challenge = 'thirty days of python'
      print(challenge.swapcase())    # THIRTY DAYS OF PYTHON
      challenge = 'Thirty Days Of Python'
      print(challenge.swapcase())    # tHIRTY dAYS oF pYTHON
```

THIRTY DAYS OF PYTHON

tHIRTY dAYS oF pYTHON

```
[88]: challenge = 'thirty days of python'
      print(challenge.startswith('thirty')) # True
      challenge = '30 days of python'
      print(challenge.startswith('thirty')) # False
```

True

False

```
[ ]:
```