In [1]:
```
letter = 'P'
print(letter)
```

```
P
```

In [2]:
```
print(len(letter))
```

```
1
```

In [3]:
```
greeting = 'Hello, World!'
print(greeting)
```

```
Hello, World!
```

In [4]:
```
print(len(greeting))
```

```
13
```

In [5]:
```
sentence = "I hope you are enjoying 30 days of python challenge"
print(sentence)
```

```
I hope you are enjoying 30 days of python challenge
```

In [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.
```

In [7]:
```
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.
```

In [8]:
```
first_name = 'Asabeneh'
last_name = 'Yetayeh'
space = ' '
full_name = first_name  +  space + last_name
print(full_name)
```

```
Asabeneh Yetayeh
```

In [9]:
```
print(len(first_name))
```

```
8
```

In [10]:
```
print(len(last_name))
```

```
7
```

In [11]:
```
print(len(first_name) > len(last_name))
```

```
True
```

In [12]:
```
print(len(full_name))
```

```
16
```

In [13]:
```
language = 'Python'
a,b,c,d,e,f = language
```

In [14]:
```
print(a)
print(b)
print(c)
print(d)
print(e)
print(f)
```

```
P
y
t
h
o
n
```

In [15]:
```
language = 'Python'
first_letter = language[0]
print(first_letter)
```

```
P
```

In [16]:
```
second_letter = language[1]
print(second_letter)
```

```
y
```

In [17]:
```
last_index = len(language) - 1
last_letter = language[last_index]
print(last_letter)
```

```
n
```

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

```
n
```

In [20]:
```
second_last = language[-2]
print(second_last)
```

```
o
```

In [23]:
```
language = 'Python'
first_three = language[0:3]
last_three = language[3:6]
print(last_three)
```

```
hon
```

In [25]:
```
last_three = language[-3:]
print(last_three)
```

```
hon
```

In [26]:
```
last_three = language[3:]
print(last_three)
```

```
hon
```

In [27]:
```
language = 'Python'
pto = language[0:6:2]
print(pto)
```

```
Pto
```

In [28]:
```
print('I hope every one enjoying the python challenge.\nDo you ?')
```

```
I hope every one enjoying the python challenge.
Do you ?
```

In [29]:
```
print('Days\tTopics\tExercises')
```

```
Days    Topics  Exercises
```

In [31]:
```
print('Days\tTopics\tExercises')
print('Day 1\t3\t5')
print('Day 2\t3\t5')
print('Day 3\t3\t5')
print('Day 4\t3\t5')
```

```
Days    Topics  Exercises
Day 1   3       5
Day 2   3       5
Day 3   3       5
Day 4   3       5
```

In [32]:
```
print('This is a back slash  symbol (\\)')
```

```
This is a back slash  symbol (\)
```

In [33]:
```
print('In every programming language it starts with \"Hello, World!\"')
```

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

In [34]:
```
challenge = 'thirty days of python'
print(challenge.capitalize())
```

```
Thirty days of python
```

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

```
3
```

In [36]:
```
print(challenge.count('y', 7, 14))
```

```
1
```

In [37]:
```
print(challenge.count('th'))
```

```
2
```

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

```
True
```

In [39]:
```
print(challenge.endswith('tion'))
```

```
False
```

In [40]:
```
challenge = 'thirty\tdays\tof\tpython'
print(challenge.expandtabs())
```

```
thirty  days    of      python
```

In [41]:
```
print(challenge.expandtabs(10))
```

```
thirty    days      of        python
```

In [42]:
```
challenge = 'thirty days of python'
print(challenge.find('y'))
```

```
5
```

In [43]:
```
print(challenge.find('th'))
```

```
0
```

In [44]:
```
first_name = 'Asabeneh'
last_name = 'Yetayeh'
job = 'teacher'
country = 'Finland'
sentence = 'I am {} {}. I am a {}. I live in {}.'.format(first_name, last_name,
print(sentence)
```

```
I am Asabeneh Yetayeh. I am a teacher. I live in Finland.
```

In [47]:
```
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 [48]:
```
challenge = 'thirty days of python'
print(challenge.find('y'))
```

```
5
```

In [49]:
```
print(challenge.find('th'))
```

```
0
```

In [50]:
```
challenge = 'ThirtyDaysPython'
print(challenge.isalnum())
```

```
True
```

In [51]:
```
challenge = '30DaysPython'
print(challenge.isalnum())
```

```
True
```

In [52]:
```
challenge = 'thirty days of python'
print(challenge.isalnum())
```

```
False
```

In [53]:
```
challenge = 'thirty days of python 2019'
print(challenge.isalnum())
```

```
False
```

In [54]:
```
challenge = 'thirty days of python'
print(challenge.isalpha())
```

```
False
```

In [55]:
```
num = '123'
print(num.isalpha())
```

```
False
```

In [56]:
```
challenge = 'thirty days of python'
print(challenge.find('y'))
```

```
5
```

In [57]:
```
print(challenge.find('th'))
```

```
0
```

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

```
False
```

In [59]:
```
challenge = '30'
print(challenge.digit())
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
Cell In[59], line 2
      1 challenge = '30'
----> 2 print(challenge.digit())

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

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

```
True
```

In [61]:
```
num = '10.5'
print(num.isdecimal())
```

```
False
```

In [62]:
```
challenge = '30DaysOfPython'
print(challenge.isidentifier())
```

```
False
```

In [63]:
```
challenge = 'thirty_days_of_python'
print(challenge.isidentifier())
```

```
True
```

In [64]:
```
challenge = 'thirty days of python'
print(challenge.islower())
```

```
True
```

In [65]:
```
challenge = 'Thirty days of python'
print(challenge.islower())
```

```
False
```

In [66]:
```
challenge = 'thirty days of python'
print(challenge.isupper())
```

```
False
```

In [67]:
```
challenge = 'THIRTY DAYS OF PYTHON'
print(challenge.isupper())
```

```
True
```

In [68]:
```
num = '10'
print(num.isnumeric())
```

```
True
```

In [69]:
```
print('ten'.isnumeric())
```

```
False
```

In [70]:
```
web_tech = ['HTML', 'CSS', 'JavaScript', 'React']
result = '#, '.join(web_tech)
print(result)
```

```
HTML#, CSS#, JavaScript#, React
```

In [71]:
```
challenge = ' thirty days of python '
print(challenge.strip('y'))
```

```
 thirty days of python
```

In [72]:
```
challenge = 'thirty days of python'
print(challenge.replace('python', 'coding'))
```

```
thirty days of coding
```

In [73]:
```
challenge = 'thirty days of python'
print(challenge.split())
```

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

In [74]:
```
challenge = 'thirty days of python'
print(challenge.title())
```

```
Thirty Days Of Python
```

In [75]:
```
challenge = 'thirty days of python'
print(challenge.swapcase())
```

```
THIRTY DAYS OF PYTHON
```

In [76]:
```
challenge = 'Thirty Days Of Python'
print(challenge.swapcase())
```

```
tHIRTY dAYS oF pYTHON
```

In [77]:
```
challenge = 'thirty days of python'
print(challenge.startswith('thirty'))
```

```
True
```

In [78]:
```
challenge = '30 days of python'
print(challenge.startswith('thirty'))
```

```
False
```

In [ ]:
```

```