

In [1]: `7**4`

Out[1]: 2401

In [2]: `planet="Earth"
diameter=12742
print("The diameter of {} is {} kilometers.".format (planet,diameter))`

The diameter of Earth is 12742 kilometers.

In [3]: `s= 'Hi there sam!'
s.split()`

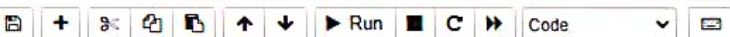
Out[3]: ['Hi', 'there', 'sam!']

In [4]: `lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
lst[3][1][2][0]`

Out[4]: 'hello'

In [5]: `d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}
d['k1'][3]['tricky'][3]['target'][3]`

Out[5]: 'hello'



```
In [2]: def domainGet(email):  
        return email.split('@')[-1]  
        domainGet('user@domain.com')
```

```
Out[2]: 'domain.com'
```

```
In [3]: def findDog(st):  
        return 'dog' in st.lower().split()  
        findDog('Is there a dog here?')
```

```
Out[3]: True
```

```
In [5]: seq = ['soup','dog','salad','cat','great']  
        list(filter(lambda word: word[0]!='s',seq))
```

```
Out[5]: ['soup', 'salad']
```

```
In [2]: def caught_speeding(speed,is_birthday):
```

```
    if is_birthday:
        speeding = speed - 5
    else:
        speeding = speed

    if speeding > 80:
        return 'Big Ticket'
    elif speeding > 60:
        return 'Small Ticket'
    else:
        return 'No Ticket'
```

```
In [3]: caught_speeding(81,True)
```

```
Out[3]: 'Small Ticket'
```

```
In [4]: caught_speeding(81,False)
```

```
Out[4]: 'Big Ticket'
```