

```
pow(7,4)
```

```
2401
```

```
s = "Hi there Sam!"
```

```
spt = s.split(", ")
print(spt)
```

```
['Hi there Sam!']
```

```
planet = "Earth"
```

```
diameter = 12742
```

```
print("The diameter of {planet} is {diameter} kilometers." .format(planet="Earth" , diameter=
```

```
The diameter of Earth is 12742 kilometers.
```

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

```
print(lst[3][1][2][0])
```

```
hello
```

```
d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}
print(d["k1"][3]["tricky"][3]["target"][3])
```

```
hello
```

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

```
'domain.com'
```

```
def animal(st):
    for word in st.lower().split():
        if word=='dog':
            return True
animal("dog is my favourite pet")
```

```
True
```

Double-click (or enter) to edit

```
def animal(st):
    count=0
    for word in st.lower().split():
        if word=='dog':
            count+=1
    return count
animal("German Shepard dog is the strongest dog")
```

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'
caught_speeding(81, False)
```

'Big Ticket'

```
dict1={
    'Empid': 1001,
    'Empname': 'Ashok',
    'Basicpay': 20000
}
dict2={
    'DepName': 'Testing',
    'DeptID': 120
}
dict3 = dict1.copy()
dict3.update(dict2)
print(dict3)
```

```
{'Empid': 1001, 'Empname': 'Ashok', 'Basicpay': 20000, 'DepName': 'Testing', 'DeptID': 120}
```



LIST: 1) List is dynamic
 2) List can be modified
 TUPLE: 1) Tuple is static
 2) Tuple cannot be modified

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