

```
In [1]: # 1. local
        # 2. enclosed
        # 3. global
        # 4. built.in
```

```
In [2]: # 1. local
def fun():
    local_val = 10
    print(local_val)
```

```
In [3]: local_val
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-3-8364cbc27679> in <module>
----> 1 local_val

NameError: name 'local_val' is not defined
```

```
In [4]: fun()
```

```
10
```

```
In [5]: local_val
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-5-8364cbc27679> in <module>
----> 1 local_val

NameError: name 'local_val' is not defined
```

```
In [6]: # # 2. enclosed_val
def outer():
    enclosed_val = 10
    def inner():
        print(enclosed_val)
    return inner
```

```
In [8]: outer>()
```

```
10
```

```
In [9]: # 3. Global
g_val = 100
def fun():
    print(g_val)
```

In [10]: `fun()`

100

In [11]: `# 3. Global
g_val = 100
def fun():
 g_val = 200
 print(g_val)`

In [12]: `fun()`

200

In [13]: `g_val`

Out[13]: 100

In [14]: `# 3. Global
g_val = 100
def fun():
 global g_val
 g_val = 200
 print(g_val)`

In [15]: `g_val`

Out[15]: 100

In [16]: `fun()`

200

In [17]: `g_val`

Out[17]: 200

In [18]: `# 4. buit.in
len("hello")`

Out[18]: 6

In []: