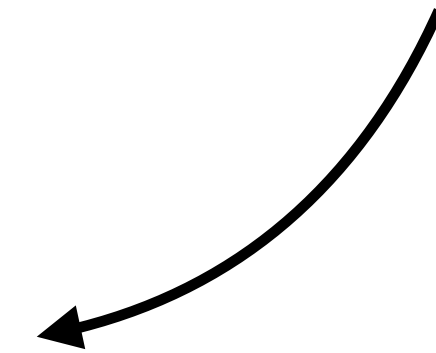


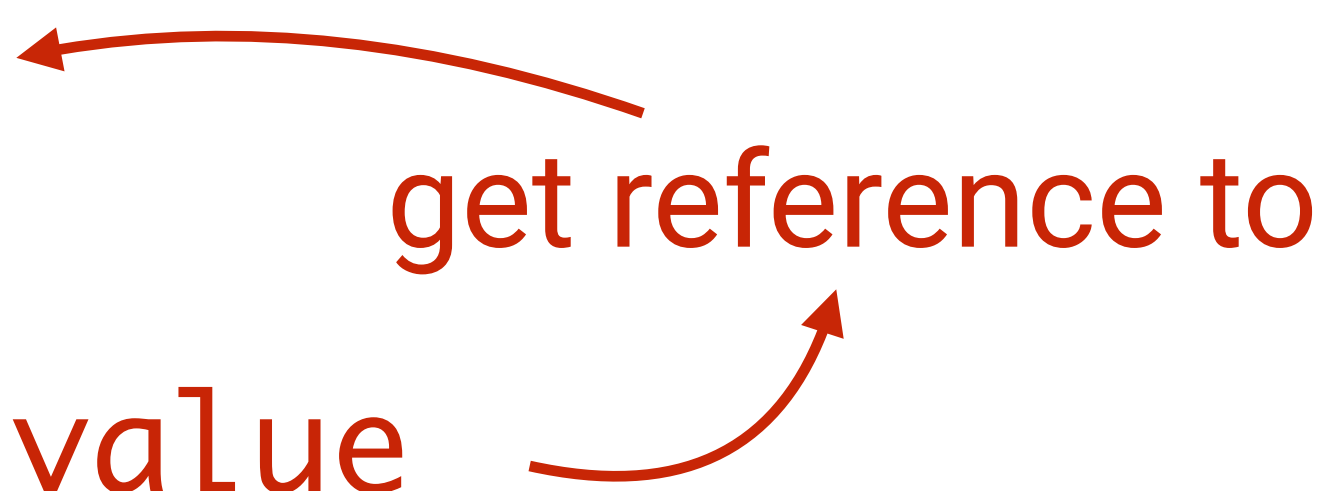
Closures

```
def closure_func(val):  
    value = val  
    def inner_function():  
        # change the value here  
        return value  
    return inner_function
```

Possible???



```
def counter(val):  
    value = val  
    def count():  
        nonlocal value  
        value += 1  
        return value  
    return count
```



The diagram consists of two red curved arrows. The first arrow starts from the text 'get reference to' and points to the variable 'value' in the line 'value = val'. The second arrow starts from the same text and points to the variable 'value' in the line 'nonlocal value'.

```
>>> c = counter(0)
```

```
>>> c()
```

1

```
>>> c()
```

2

...