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Python Quick Tips

If Statements



Python Quick Tips #6

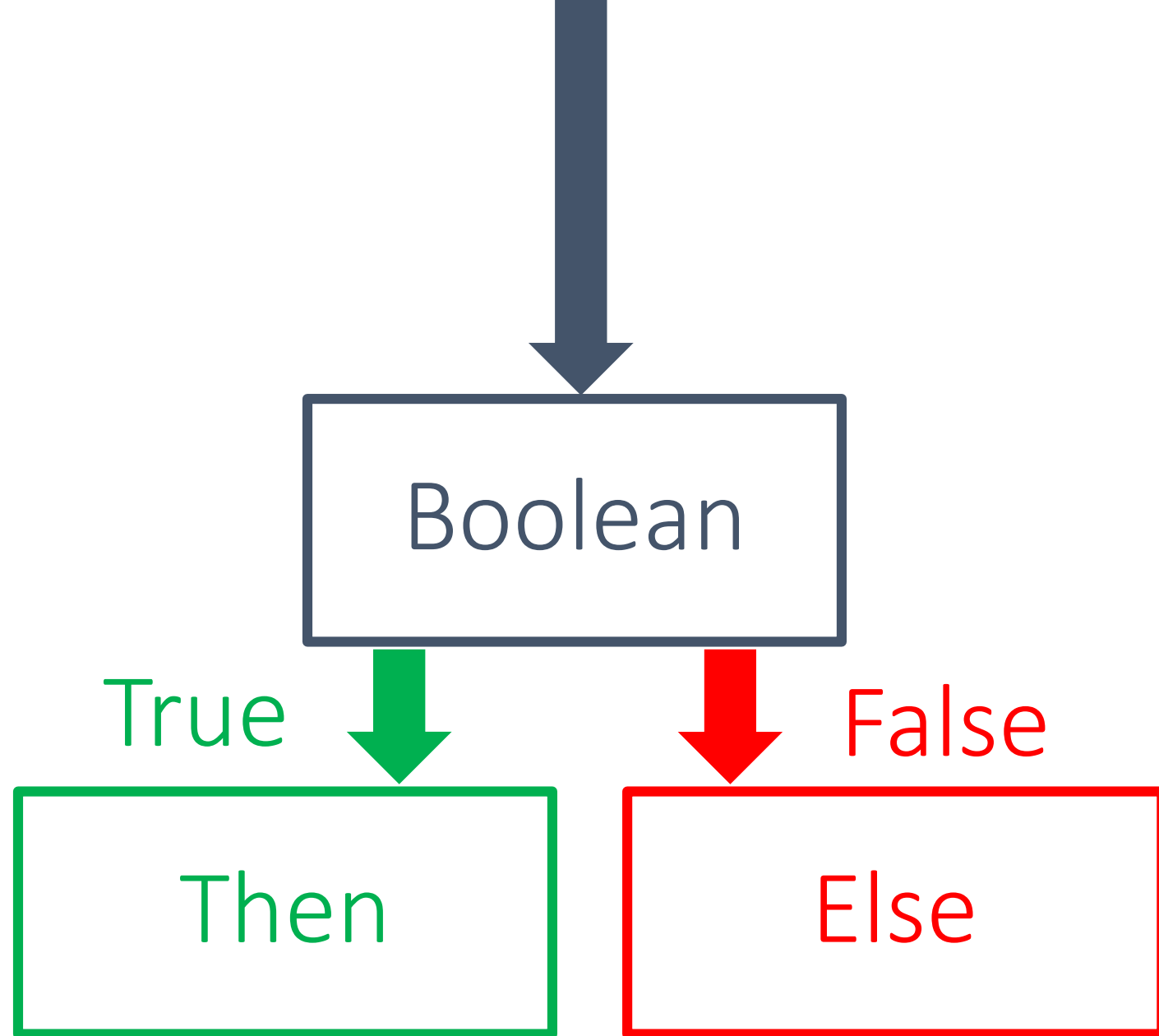
If Statements

If



Most programs have an
If(then, else)

If(then/else)



If Statements

Syntax

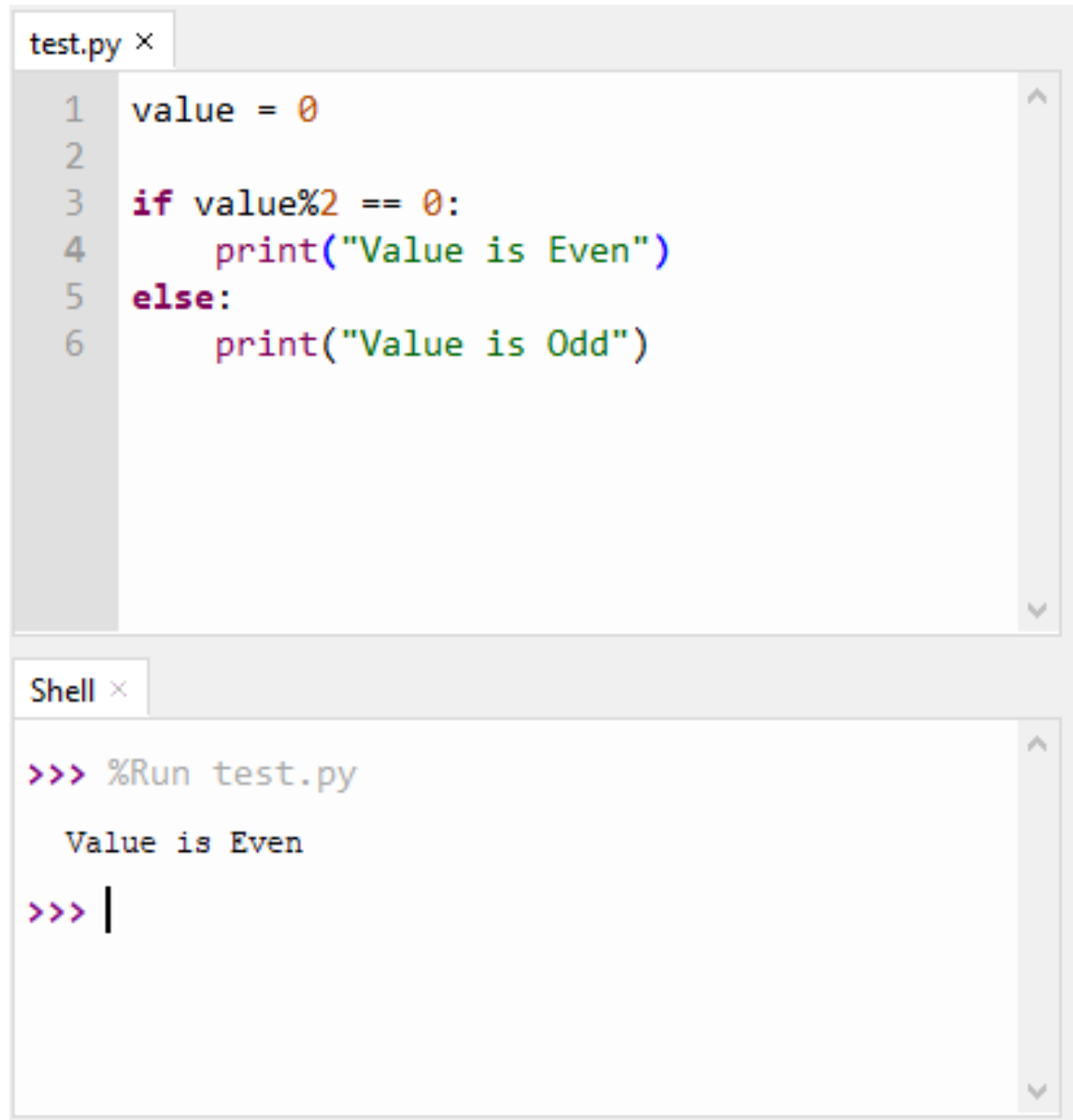
if *condition*:

(tab)then result

else:

(tab)else result

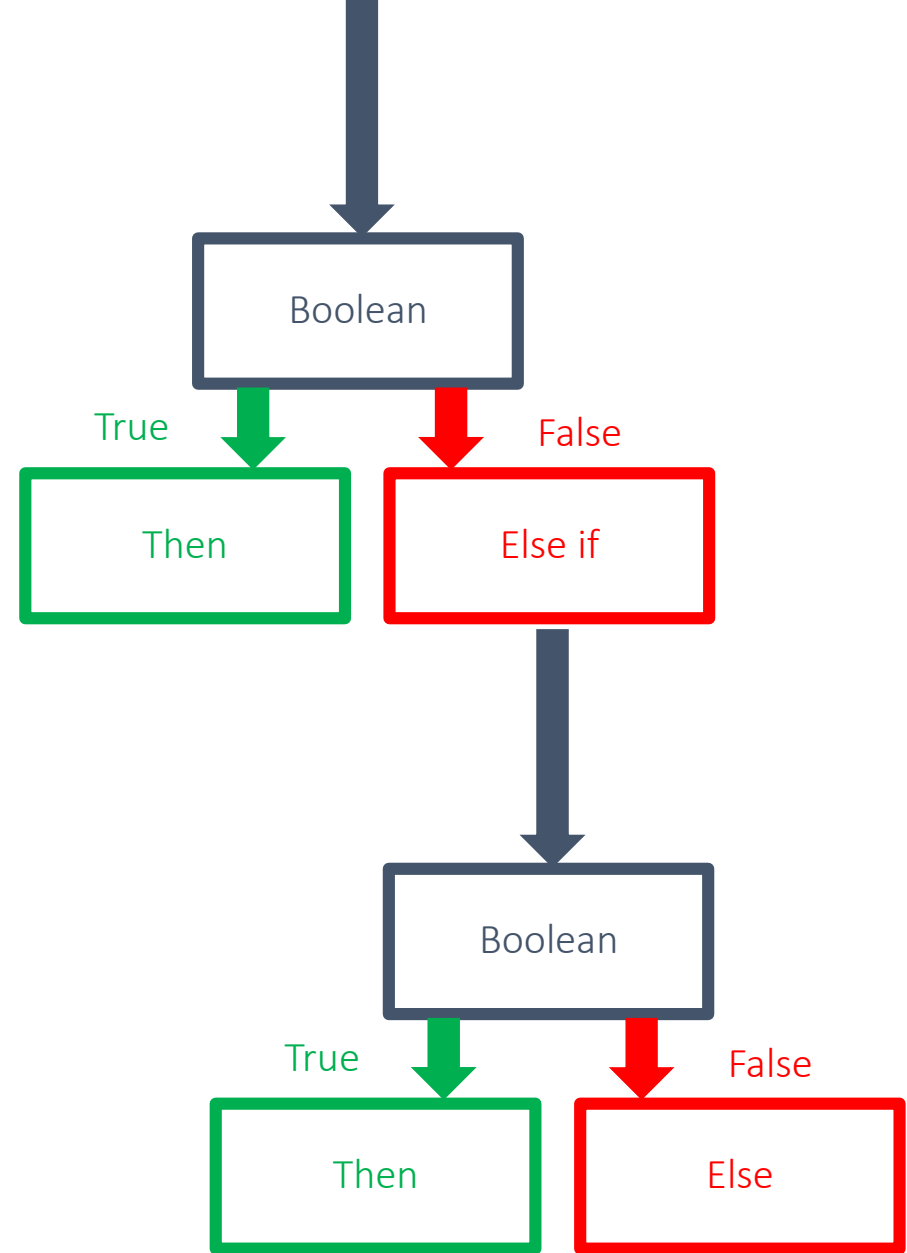
If Statements



The image shows a screenshot of a Python IDE with two panels. The top panel, titled 'test.py', contains a Python script that checks if a value is even or odd. The bottom panel, titled 'Shell', shows the execution of the script, which outputs 'Value is Even'.

```
test.py ×  
1 value = 0  
2  
3 if value%2 == 0:  
4     print("Value is Even")  
5 else:  
6     print("Value is Odd")  
  
Shell ×  
  
>>> %Run test.py  
Value is Even  
>>> |
```

If(then/if)



elif (Else if)

Syntax

if *condition*:

(tab)then result

elif:

(tab)else if result

else:

(tab)else result

elif (Else if)

test.py ×

```
1 value = 9
2
3 if value%2 == 0:
4     print("Divisible by 2")
5 elif value%3 == 0:
6     print("Divisible by 3")
7 else:
8     print("Not divisible by 2 or 3")
```

Shell ×

```
>>> %Run test.py
    Divisible by 3
>>> |
```

elif (Else if)

test.py ×

```
1 value = 7
2
3 if value%2 == 0:
4     print("Divisible by 2")
5 elif value%3 == 0:
6     print("Divisible by 3")
7 else:
8     print("Not divisible by 2 or 3")
```

Shell ×

```
>>> %Run test.py
    Not divisible by 2 or 3
>>> |
```

Shorthand

Syntax
then **if** *condition* **else** else

Shorthand

test.py ×

```
1 value = 5
2
3 print("Value is Even") if value%2==0 else print("Value is Odd")
```

Shell ×

```
>>> %Run test.py
```

```
Value is Odd
```

```
>>> |
```



Next on #7
Try/Except Statements



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Python Quick Tips

If Statements