



Learning Exercise: Ifs & Functions

What will this program output?

code/flow.py

```
1 # Q1. h(4)
2 # Q2. h(5)
3
4
5 → def f(x):
6     → x = x - 1 = 2
7     return g(x) + 1
8
9
10 → def g(x):
11     return x * 2
12
13
14 → def h(x):
15     if x % 2 == 1: ✓ # x odd
16         return f(x) + x
17     else: # x even
18         return f(f(x))
19
20 print(h(3)) # 8
21 print(h(4))
22 print(h(5))
```

manual walk thru →
call lookup Returns

→ h(3)
→ f(3)
→ g(2)
 $f(3) + 3 = 8$
 $g(2) + 1 = 5$
 $2 \times 2 = 4$

% → multiples
circular