

Quiz 01-05: Python Basics and If-Statement

1) Identify name, value, and type

- `player` value: "Mia" ; type: str
 - `level` value: 5 ; type: int
 - `accuracy` value: 0.8 ; type: float
-

2) Update a variable (watch the type!)

```
x = 10
x = x + 2.5
print(x)
print(type(x))
```

Output:

```
12.5
<class 'float'>
```

3) Quotes vs no quotes

```
team = "Tigers"
print(team)
print("team")
```

- `team` (no quotes) prints: Tigers
 - `"team"` (with quotes) prints: team
-

4) What does it print? (order matters)

```
print(18 - 5 * 2)
print((18 - 5) * 2)
```

Output:

```
8
26
```

5) // and % together

```
print(17 // 4)
print(17 % 4)
print(4 * (17 // 4) + (17 % 4))
```

Output:

```
4
1
17
```

6) Snacks per kid (cookies per kid + leftover)

One correct answer:

```
cookies = 29
kids = 6

print(cookies // kids)
print(cookies % kids)
```

Output:

```
4
5
```

7) Mini “calculator”

One correct answer:

```
a = 20  
b = 6  
  
print(a / b)  
print(a // b)  
print(a % b)
```

Output:

```
3.333333333333335  
3  
2
```

8) Fix the TypeError (string + number)

Corrected code:

```
level = 7  
message = "Level: " + str(level)  
print(message)
```

9) Index + slice

```
word = "pineapple"  
print(word[0])  
print(word[4])  
print(word[0:4])  
print(word[4:9])
```

Output:

```
p  
a  
pine  
apple
```

10) Build a sentence (spaces matter)

The blank should be:

- " " (a single space)

Full correct code:

```
first = "Harry"  
last = "Potter"  
  
message = "Hello, " + first + " " + last + "!"  
print(message)
```

11) Slice + reorder

```
code = "ABCDEF"  
part1 = code[1:4]  
part2 = code[4:6]  
print(part2 + part1)
```

Output:

```
EFBCD
```

12) If-elif-else grading

```
score = 85

if score >= 90:
    print("A")
elif score >= 80:
    print("B")
else:
    print("C")

print("Done")
```

Output:

```
B
Done
```

13) Even or odd, then add a message

```
n = 15

if n % 2 == 0:
    print("Even")
else:
    print("Odd")

print("n =", n)
```

Output:

```
Odd
n = 15
```

14) Fix the indentation

One correct answer:

```
age = 11

if age >= 10:
    print("Welcome!")
    print("Have fun!")
```

15) Temperature helper

One correct answer:

```
temperature = 28

if temperature >= 30:
    print("Hot")
else:
    print("Not hot")
```

16) True or False (logic)

1. `True and False` → `False`
2. `True or False` → `True`
3. `not True` → `False`
4. `(5 > 3) and (2 > 10)` → `False`
5. `(7 == 7) or (4 != 4)` → `True`

17) Prize condition (fill in the blank)

One correct answer:

```
score = 88
helped_friend = True

if (score >= 90) or helped_friend:
    print("Prize!")
else:
    print("No prize.")
```

Expected output:

Prize!

18) Permission check (with `not`)

One correct answer (uses `not`):

```
age = 9
with_parent = False

if not (age < 10 and not with_parent):
    print("Allowed")
else:
    print("Not allowed")
```

Output:

Not allowed