

Quiz 01-05: Python Basics and If-Statement

Name: _____ Date: _____

Instructions

- Answer in the blanks.
 - For “write code” questions, write valid Python code.
 - For “what does it print” questions, write the **exact** output.
 - Do **not** use functions (no `def`). Use variables and `print(...)`.
 - Remember: code inside `if` blocks must be indented with **4 spaces**.
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Topic 1 — Variables and Types (`int`, `float`, `str`)

1) Identify name, value, and type

Look at the code:

```
player = "Mia"  
level = 5  
accuracy = 0.8
```

Fill in:

- `player` value: _____ ; type: _____
 - `level` value: _____ ; type: _____
 - `accuracy` value: _____ ; type: _____
-

2) Update a variable (watch the type!)

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

Output:

3) Quotes vs no quotes

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

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

Topic 2 — Basic Arithmetic (`+` `-` `*` `/` `//` `%`) and Precedence

4) What does it print? (order matters)

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

Output:

//

and %

together

```
print(17 // 4)
```

```
print(17 % 4)
```

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

29

cookies and

6

kids.

4) $\frac{1}{2} \leq \frac{1}{2} \leq \frac{1}{2}$ / $\frac{1}{2} \leq \frac{1}{2} \leq \frac{1}{2}$ / $\frac{1}{2} \leq \frac{1}{2} \leq \frac{1}{2}$

- 1) cookies per kid (everyone gets the same number)

- 2) leftover cookies

```
a = 20
b = 6
```

$$b = 6$$
$$b = 6$$

1) a / b

1) a / b

- 1) `a / b`
- 2) `a // b`
- 3) `a % b`

Topic 3 — String Basics (`+`, indexing, slicing, `str()`)

8) Fix the TypeError (string + number)

This code will cause an error. Fix it using `str()` so it prints: `Level: 7`

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

Corrected code:

9) Index + slice (read carefully)

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

```
print(word[0:4])
print(word[4:9])
```

Output:

10) Build a sentence (spaces matter)

Fill in the blank so the output is exactly: `Hello, Harry Potter!`

```
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:

Topic 4 — If Statements (`if`, `if-else`, `if-elif-else`)

14) Fix the indentation

This program should print **both** lines when `age` is at least 10.

```
age = 11

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

Write the corrected code:

15) Write code: temperature helper

Rules:

- If `temperature` is **greater than or equal to 30**, print `"Hot"`
- Otherwise, print `"Not hot"`

Complete the code:

```
temperature = 28
```

Topic 5 — Booleans and Logic (`and` , `or` , `not`)

16) True or False (logic)

Write `True` or `False` for each expression:

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

17) Fill in the blank (use `and` / `or`)

You get a prize if:

- your `score` is at least `90` , `or`
- you helped a friend (`helped_friend` is `True`)

```
score = 88
helped_friend = True

if _____:
    print("Prize!")
else:
    print("No prize.")
```

Expected output:

18) Write code: permission check (with `not`)

Rules: You can join the game if:

- you are at least `10` , **or**
- you are with a parent

Write a program that prints `"Allowed"` or `"Not allowed"` .

```
age = 9
with_parent = False

# complete the code:
```

Output:

```
Not allowed
```