**Level 3: The Maze of Logic**

**Conditional Statements**

**MCQs:**

1. What will be the output of the following?

x = 10

if x > 5:

print("Hello")

a) Hello ✅  
b) Error  
c) Nothing  
d) None

1. What is the default condition for an else statement?  
   a) Always False  
   b) Always True ✅  
   c) Must be specified  
   d) None

**Fill in the Blanks:**

1. The if statement is used for \_\_\_\_\_\_\_\_\_\_ execution. (conditional)
2. The else block runs when the if condition is \_\_\_\_\_\_\_\_\_\_. (False)

**True/False:**

1. An if statement can exist without an else block. (True ✅)
2. An if condition can contain multiple conditions using and and or. (True ✅)
3. Nested if statements are not allowed in Python. (False ❌)

**Relational and Logical Expressions**

**MCQs:**

1. Which logical operator returns True if both conditions are True?  
   a) or  
   b) and ✅  
   c) not  
   d) xor
2. What will be the result of not (True and False)?  
   a) True ✅  
   b) False  
   c) None  
   d) Error

**Fill in the Blanks:**

1. The or operator returns True if at least \_\_\_\_\_\_\_\_\_\_ operand is True. (one)
2. not is a \_\_\_\_\_\_\_\_\_\_ operator that negates a Boolean expression. (logical)

**True/False:**

1. 5 == 5 and 2 > 1 evaluates to True. (True ✅)
2. 3 != 3 evaluates to True. (False ❌)
3. (5 > 10) or (10 > 5) evaluates to True. (True ✅)
4. not (10 > 5) evaluates to False. (True ✅)