Exercise 68:

### 1. Flowchart for the match...case Structure

### Python match...case Statement (With Examples)

### 2. Explanation of the match...case Structure

The match...case structure is used for pattern matching in Python. It is used to compare an expression against different patterns or cases, and the code inside the matching block gets executed. If no patterns match, a default case can be used.

**Key components**:

* **Expression**: This is the value being tested.
* **Cases**: The potential values or patterns the expression can match against.
* **Default case**: Executes when none of the patterns match (similar to the else block in an if...else statement).

### 3. Example with 3 Different Cases

def match\_case\_example(value):

match value:

case 1:

print("Case 1: Value is 1")

case 2:

print("Case 2: Value is 2")

case 3:

print("Case 3: Value is 3")

case \_:

print("Default case: Value did not match 1, 2, or 3")

# Test the function with different values

match\_case\_example(1) # Output: Case 1: Value is 1

match\_case\_example(2) # Output: Case 2: Value is 2

match\_case\_example(4) # Output: Default case: Value did not match 1, 2, or 3