

```
public static String compute(int value) {  
    String result;  
  
    if (value < 5) result = "Not a hurricane";  
    else if (value < 10) result = "Class 1 hurricane";  
    else if (value < 11) result = "Class 2 hurricane";  
    else if (value < 13) result = "Class 3 hurricane";  
    else if (value < 15) result = "Class 4 hurricane";  
    else result = "Class 5 hurricane";  
  
    return result;  
}
```

The diagram illustrates the data flow in the provided Java code. It features several nodes represented by colored circles and lines connecting them to show the flow of data and control.

- Variables and Constants:**
  - value:** Represented by purple nodes.
  - result:** Represented by purple nodes.
  - Thresholds:** 5, 10, 11, 13, and 15 are represented by yellow nodes.
  - Result Strings:** "Not a hurricane", "Class 1 hurricane", "Class 2 hurricane", "Class 3 hurricane", "Class 4 hurricane", and "Class 5 hurricane" are represented by orange nodes.
- Flow:**
  - The flow starts with the **value** node, which branches into multiple paths based on comparisons with the thresholds (5, 10, 11, 13, 15).
  - Each comparison path leads to a specific result string node.
  - The result string nodes then converge back to the **result** variable node.
  - The final **result** node leads to the **return result;** statement.