

```
public static Boolean compute(String input) {  
    input = input.toLowerCase();  
  
    if (input.contentEquals("n")) {  
        return false;  
    } else if (input.contentEquals("no")) {  
        return false;  
    }  
  
    if (input.contentEquals("y")) {  
        return true;  
    } else if (input.contentEquals("yes")) {  
        return true;  
    }  
  
    return null;  
}
```

The diagram illustrates a network of nodes and edges overlaid on the code. Nodes are represented by colored circles: yellow, orange, red, and dark grey. Edges are represented by colored lines: yellow, orange, and red. The network shows connections between different parts of the code, such as the flow from 'input' to 'toLowerCase()', the branching logic of the if-else statements, and the final return statement. For example, a yellow line connects the 'input' variable to the 'toLowerCase()' method, and a red line connects the 'return false;' statement to the 'no' condition. The network also shows connections between the 'if' and 'else if' blocks, and the 'return true;' and 'return null;' statements.