

```
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 (purple, yellow, orange, red) and edges by colored lines. The nodes are distributed across the code, with some nodes connected to multiple other nodes, forming a complex web. The edges connect nodes across different lines of code, such as from the 'input' variable to its use in 'toLowerCase()', and from 'contentEquals' calls to their respective return values.