

```
public static int compute(int number) {  
    int result = 0;  
    while (number != 0) {  
        result += number % 10;  
        number /= 10;  
    }  
    return result;  
}
```

The image displays a code snippet for a Java method named `compute` that calculates the sum of the digits of a given integer `number`. The code is annotated with a graph structure, likely representing an Abstract Syntax Tree (AST) or a control flow graph. The nodes are colored circles, and the edges are lines connecting them. The nodes are color-coded: blue for keywords and control flow, teal for variable declarations, red for arithmetic operations, and yellow for constants. The graph shows the hierarchical structure of the code, with the root node being the method signature. The `while` loop is represented by a node that branches into the loop body and the loop condition. The loop body is further broken down into the assignment and the arithmetic operation. The `return` statement is also represented by a node that branches into the variable being returned.