

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

The diagram illustrates a network of nodes and edges overlaid on the code. The nodes are represented by colored circles (purple, blue, orange, yellow) and the edges by colored lines (purple, orange, yellow). The nodes are distributed across the code, with a dense cluster in the middle section (while loop) and more sparse nodes at the beginning and end. The edges connect various parts of the code, including the function signature, the loop condition, the loop body, and the return statement, suggesting a complex relationship between the different components of the code.