

A network diagram is overlaid on the code. It consists of numerous circular nodes in various colors (yellow, orange, red, purple, blue) and a web of lines connecting them. The nodes are distributed across the image, with a higher density in the upper left and middle sections. The lines are thin and connect nodes both horizontally and diagonally, creating a complex web-like structure.

```
public static String compute(String word1, String word2) {  
    String result = "";  
    if (word1.length() == word2.length()) {  
        for (int i = 0; i < word1.length(); i++) {  
            result = result + word1.charAt(i) + word2.charAt(i);  
        }  
    }  
    return result;  
}
```