

```
public static String compute(String text) {  
    String result = "";  
  
    for (int i = 0; i < text.length(); i++) {  
        char c = text.charAt(i);  
        if ((c >= 'a' && c <= 'z') || (c >= 'A' && c <= 'Z')) {  
            result = result + c;  
        }  
    }  
  
    return result;  
}
```

The diagram illustrates the execution flow of the provided Java code. It uses colored nodes and edges to represent the control flow graph. The flow begins at the function signature, proceeds to the initialization of the `result` string, and then enters the `for` loop. Within the loop, the flow branches to `text.charAt(i)` and then to the `if` condition. The `if` condition has two possible paths: one leading to the concatenation of the character to `result`, and another leading to the loop's increment. The flow concludes at the `return result;` statement.