

```
public static int sumArray(int[] array) {  
    int result = 0;  
    for (int i = 0; i < array.length; i++) {  
        result = result + array[i];  
    }  
    return result;  
}
```

The diagram illustrates the control flow of the provided Java code. It features several colored circular nodes connected by lines: a purple node above 'int result = 0;', a yellow node above 'array' in the function signature, an orange node above the first 'i' in the for loop, a purple node above 'i++', a pink node above 'array[i]', a red node above the closing brace of the for loop, an orange node above 'return result;', and a red node above the final closing brace. Lines connect these nodes to show the sequence of execution: from the function signature to the initialization, then to the loop start, through the loop body, to the loop end, then to the return statement, and finally to the end of the function.