Answers to Questions from TT 6.1

Name: Minh An Nguyen
Student ID: 104844794

Hand execution using a trace table

Demonstrate how the following code is executed in the computer.

```
1 def whatdoesthisfunctiondo?(data)
2     result := 0;
3     i = 0
4     while i < data.length
5         result := result + data[ i ];
6         i = i + 1
7     end
8     return result
9 end
```

Draw and complete a trace table for the following two sets of data and place the final result in the table below:

data	Result
[6, -3, 3, 8, 1]	15
[2, 6, -2, 3]	9

Once you have completed your trace tables (below) write the name you chose for the function above:

calculate_sum_of_array

Place your trace tables below:
For data set: [6, -3, 3, 8, 1]

Count	i	result_initial	data[i]	result_final
1	0	0	6	6
2	1	6	-3	3
3	2	3	3	6
4	3	6	8	14
5	4	14	1	15

For data set [2, 6, -2, 3]

Count	i	result_initial	data[i]	result_final
1	0	0	2	2
2	1	2	6	8
3	2	8	-2	6
4	3	6	3	9