Answers to Questions from TT 6.1

Name: Dylan Rodwell
Student ID: 105341089

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:

AdditionFunction

Place your trace tables below:

For data set: [6, -3, 3, 8, 1]

Result = 0

i	Data[i]	Result
0	6	6
1	-3	3
2	3	6
3	8	14
4	1	15

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

Result = 0

i	Data[i]	Result
0	2	2
1	6	8
2	-2	6
3	3	9