Answers to Questions from TT 6.1

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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</pre>
```

- -First, We set result and Index at 0 since in computing language 0 will considered the first variable
- -While index is less than data.length(The arrays) then result will take result+data(and which variable number is)
- -After one index is completed then we will take the current index to add on 1
- -returning the result

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]	
[2, 6, -2, 3]	

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

```
{6,-3,3,8,1}=15
{2,6,-2,3}=9
```

Place your trace tables below:

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

Data	INDEX	Result	
6	0	0	
-3	1	6	
3	2	3	
8	3	6	
1	4	14	
	5	15	

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

DATA	INDEX	RESULT
2	0	0
6	1	2
-2	2	8
3	3	6
	4	9