005 An algorithm a day...

Algorithm Question	
Consider the array numbers = [2, 5, 3, 6, 2, 3, 6, 4] where the value of numbers[2] is 3.	
Write an algorithm which: - Adds up the numbers in the array - Displays the result.	
To get full marks a loop should be used in your algorithm.	[5 marks]

Algorithm Example Answer

Consider the array numbers = [2, 5, 3, 6, 2, 3, 6, 4] where the value of numbers [2] is 3.

Write an algorithm which:

- Adds up the numbers in the array
- Displays the result.

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[5 marks]

***There are always different ways to solve a problem. This algorithm is just an example.

What is important is that the logic is correct!***

LOGIC:

- A variable to hold the total (running total) should be declared
- A loop should be used which will run for the same number of times as there are items in the array
- Inside the loop the next array item should accessed using the counter as the index...
- ...and it should be added to the total
- At the end of the loop, the total should be outputted to the screen

EXAMPLE ALGORITHM:

```
total = 0
for counter = 0 to (numbers.length - 1)
   total = total + numbers(counter)
print(total)
```