## 005 An algorithm a day...

## Algorithm Question

Consider the array numbers $=[\mathbf{2}, 5,3,6,2,3,6,4]$ where the value of numbers(2) is 3 .

Write an algorithm in pseudocode which:

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

To get full marks a loop should be used in your algorithm.

## 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 in pseudocode which:

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To get full marks a loop should be used in your algorithm.
[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 lengthOfNumbers

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    total = total + numbers(counter)
```

