# Task 1

C.

## D.

The method appears to be effective but doesn’t cover a large enough scope of inputs. The test only runs for numbers from 10 through to 100 which is only a portion of inputs that are possible from a user input. For this method to cover as many bases as possible, it should test for the occurrence of the input being numbers such as negative, 0, single digit positive and triple digit positive, as well as invalid input such as text or whitespace characters.

## E.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Comment (pass/fail and  corrective action if necessary) |
| 1 | Test to check if it handles positive integers | 15 | 59 | 53 | Fail. Changed maths to read “32” instead of “032”. Passed after change. |
| 2 | Test to see if it handles negative integers | -15 | 5 | 5 | Pass |
| 3 | Test to see if it handles 0 | 0 | 32 | 32 | Pass |
| 4 | Test to see if it handles text characters | “hello” | “Unexpected input” | “Unexpected input” | Pass |

## F.

The method performs as expected after minor bug fixes. The code initially had the calculation written with the value as “032” which caused a calculation error, after changing this value to “32” the method ran without fault.

# Task 2

# 

## G.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Comment (pass/fail and  corrective action if necessary) |
| 1 | Test to check if it handles positive integers | [5, 6, 7, 8, 9, 10, 11, 12, 13, 14] | 9.5 | 9.5 | Pass |
| 2 | Test to see if it handles negative integers | [-14, -13, -12, -11, -10, -9, -8, -7, -6, -5] | -10.5 | -10.5 | Pass |
| 3 | Test to see if it handles value from negative through to positive | [-5, -4, -3, -2, -1, 0, 1, 2, 3, 4] | -0.5 | -0.5 | Pass |
| 4 | Test to see if it handles text characters | [“hello”, 1, 2, 3, 4, 5] | “Unexpected input” | “Unexpected input” | Pass |

## H.

The method runs as required, running through all elements of the double array provided and calculating the averages. If text is entered, the method will not run.