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| --- | --- | --- | --- | --- |
| Test Case: | Input(s): | Expected Output(s): | Actual Output: | Result: |
| 1. Using a 1-10 grading scale | In order of program:  8, 5, 3, 7, 0 | Average Grade: 4.6  Highest Grade: 8 | Average Grade: 4.6  Highest Grade: 8 | Pass |
| 1. Using a 1-15 grading scale | 12, 8, 4, 15, 13 | Average Grade: 10.4  Highest Grade: 15 | Average Grade: 10.4  Highest Grade: 15 | Pass |
| 1. Using a 1-20 grading scale | 14, 19, 20, 1, 3 | Average Grade: 11.4  Highest Grade: 20 | Average Grade: 11.4  Highest Grade: 20 | Pass |

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CMIS 102: Introduction to Problem Solving

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Quiz Grade Average Calculating Program Test Report:

While testing this program, I executed 3 test cases, all three of whom passed successfully. My test cases were based on 3 different quiz grading systems: The classic 1-10 scale, the 1-15 scale, and the 1-20 scale.

As part of the first test case, I entered an 8 for John’s grade, a 5 for Sofia’s grade, a 3 for Emily’s grade, a 7 for Peter’s grade, and a 0 for Billy’s grade. Since (8+5+3+7+0)/5 =4.6, this was both my expected and actual output, along with the fact that the largest number was shown to be 8, with the test case successfully passing.

For the second test case I gave John a 12, Sofia an 8, Emily a 4, Peter a 15, and Billy a 13. My expected output was the average being 10.4, and the highest grade to be 15. Since (12+8+4+15+13)/5=10.4, that proved to be true, and the second test case passed.

The third and final test case had grades of 14, 19, 20, 1, and 3 input in it, with an expected output of a 11.4 average and a highest grade of 20. The test case managed to pass, as (14+19+20+1+3)/5 = 11.4 (and all aforementioned highest numbers are obviously correct).