|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case: | Input | Expected Output: | Actual Output: | Result: |
| 1. Carpeting Price with Standard Carpet | Length: 13  Width: 11  Carpet\_Quality = “Standard Carpet” | 715 | 715 | Pass |
| 1. Carpeting Price with Extra Soft Carpet | Length: 13  Width: 11  Carpet\_Quality = “Extra Soft Carpet” | 2145 | 2145 | Pass |
| 1. Carpeting Price with DeLuxe Carpet | Length: 13  Width: 11  Carpet\_Quality = “DeLuxe Carpet | 5005 | 5005 | Pass |

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CMIS 102: Introduction to Problem Solving

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Carpeting Price Calculating Program Test Report:

While writing this report, I executed a total of 3 test cases, all 3 of whom had a successful “Pass” result. In order for the calculations to be fair and not biased, as well as to better demonstrate the influence of the Carpet Quality variable on the program, I kept the “Length” and “Width” values the same for all 3 test cases, changing only the Carpet Quality.

For the first test case, “Carpeting Price with Standard Carpet”, I entered a Length of 13, a Width of 11, and a “Standard Carpet” quality. SinceStandard Carpet price per square foot is $5, and 13\*11\*5=715, the latter was the Expected Output, and also the Actual Output, therefore passing the test case.

The second test case, “Carpeting Price with Extra Soft Carpet”, the Length and Width, as mentioned, were again 13 and 11, respectively. However, this time, the Carpet\_Quality variable was set to “Extra Soft Carpet”. Since the price per square foot of “Extra Soft Carpet” was set to $15, and 13\*11\*15=2145, that was the Expected Output. It in fact ended up being so, giving the second test case a pass result.

For the final test case, “Carpeting Price with DeLuxe Carpet”, I changed the Carpet Quality to DeLuxe Carpet. Since the price per square foot of DeLuxe Carpet was set to $35, and 13\*11\*35=5005, that was the Expected Output. It turned out to also be the Actual Output, passing the final test case.

I felt that keeping the Length and Width the same actually helped me a lot in making sure the test cases pass. This move guaranteed that any change in the Actual Output depended solely on the Carpet\_Quality variable, rather than any other changes. This helped me ensure the effectiveness of the Determine\_Price function that I created, and to avoid mistaking some other change for the result of my function, Had I been constantly changing the other two variables, it would have been extremely difficult to tell if Determine\_Price has any influence on the final result.

Finally, the tabular format is very effective for writing test reports, as it allows me to have specific, clearly defined spaces for writing each section of the test case.