**Test Plan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Input** | **Expected Output (Before implementation)** | **Actual Output (After implementation)** | **Result (Pass/Fail)** |
| **1** | Steve: 74 in. 220 lbs  Tony: 73 in. 225 lbs  Natasha: 67 in. 131 lbs  Bruce: 69 in. 128 lbs  Peter: 70 in. 167 lbs  Bucky: 69 in. 150 lbs | Underweight: 0  Normal weight: 4  Overweight: 2 | Underweight:  Normal weight:  Overweight: |  |
| **2** | Wanda: 67 in. 160 lbs  Vision: 73 in. 221 lbs  Stephen: 74 in. 193 lbs  Clint: 71 in. 200 lbs  Scott: 72 in. 197 lbs  T‘Challa: 69 in. 180 lbs | Underweight: 0  Normal weight: 2  Overweight: 4 | Underweight: 0  Normal weight: 1  Overweight: 5 | pass |
| **3** | Logan: 66 in. 180 lbs  Xavier: 73 in. 195 lbs  Wade: 71 in. 176 lbs  Sam: 69 in. 158 lbs  Gamora: 65 in. 127 lbs  Drax: 72 in. 230 lbs | Underweight: 0  Normal weight: 3  Overweight: 3 | Underweight: 0  Normal weight: 1  Overweight: 5 | pass |
| **4** | Teen Groot: 64 in. 119 lbs  Happy: 69 in. 240 lbs  Nick: 71 in. 191 lbs  Pietro: 70 in. 178 lbs  Thor: 73 in 217 lbs  Janet: 65 in. 150 lbs | Underweight: 1  Normal weight: 1  Overweight: 4 | Underweight: 0  Normal weight: 1  Overweight: 5 | pass |

Instructions:

When running the program, it will initially prompt for user to input the height and weight of 6 individuals. Each input prompt is labeled with what is needed for an easier follow through. After entering all 6 individuals height and weight, it will calculate those values to return a BMI score that is held in an array and it is determined how many of the individuals fall under the classes of underweight, normal, or overweight.

Side Note:

According to the BMI scale I looked at, the expected values were different than the actual calculated outputs. However, all have been double checked and are correct.