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**CSM III – 1**

**September 23, 2022**

**Test Plan**

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| **Test Case** | **Input** | **Expected Output (Before implementation)** | **Actual Output (After implementation)** | **Result (Pass/Fail)** |
| **1** | Maria: 60 in. 145 lbs  Jessica: 64 in. 155 lbs  Andrea: 61 in. 160 lbs  Jacob: 69 in. 210 lbs  Andrew: 72 in. 200 lbs  Colton: 71 in. 198 lbs | Underweight: 0  Normal weight: 0  Overweight: 6 | Underweight:  Normal weight:  Overweight: |  |
| **2** | Maria: 69 in. 148 lbs  Jessica: 64 in. 160 lbs  Andrea: 66 in. 157 lbs  Jacob: 70 in. 200 lbs  Andrew: 72 in. 217 lbs  Colton: 75 in. 225 lbs | Underweight: 0  Normal weight: 1  Overweight: 5 | Underweight:  Normal weight:  Overweight: |  |
| **3** | Maria: 60 in. 152 lbs  Jessica: 61 in. 130 lbs  Andrea: 66 in. 155 lbs  Jacob: 64 in. 176 lbs  Andrew: 66 in. 196 lbs  Colton: 65 in. 185 lbs | Underweight: 0  Normal weight: 1  Overweight: 5 | Underweight:  Normal weight:  Overweight: |  |
| **4** | Maria: 60 in. 138 lbs  Jessica: 63 in. 145 lbs  Andrea: 64 in. 157 lbs  Jacob: 70 in. 200 lbs  Andrew: 74 in. 240 lbs  Colton: 72 in. 220 lbs | Underweight: 0  Normal weight: 0  Overweight: 6 | Underweight:  Normal weight:  Overweight: |  |

Need a variable to store names it would be called name and its data type would be string

Need a variable to store heights it would be called height and its data type would be integer

Need a variable to store weights it would be called weight and its data type would be integer

Need a variable BMI to store the BMI its data type would be integer

Need a variable to store underweight it would be called underweight and its data type would be integer

Need a variable to store overweight it would be called overweight and its data type would be integer

Need a variable to store normal weight it would be called normalweight and its data type would be integer

Retrieve user name from user into variable name

Retrieve user weight from user into variable weight

Retrieve user height from user into variable height

Perform math equation on users height and weight to determine their BMI

Perform a for loop through the three sections of determining if it is underweight/normal weight/ overweight

Store the variable in its appropriate area

Once its gone through all 6 users it then returns the amount that are underweight/normal weight/overweight