Validation Test

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| --- | --- | --- | --- | --- |
| **Item Tested** | **Test Data** | **Expected Result** | **Actual Result** | **Changes Required** |
| On CalcButton() press – WeightTextBox does not allow blank values | NOTHING | MessageBox showing  (Please enter a Weight value) | MessageBox showing  (Please enter a Weight value) | None |
| On CalcButton() press – HeightTextBox does not allow blank values  **\*Happens after checking for weight – if weight is valid, it will not check for this** | NOTHING | MessageBox showing  (Please enter a Height value) | MessageBox showing  (Please enter a Height value) | None |
| On CalcButton() press – WeightTextBox does not allow negative values | -95 | MessageBox showing  (Please enter a valid Weight - no negative numbers!) | MessageBox showing  (Please enter a valid Weight - no negative numbers!) | None |
| On CalcButton() press – HeightTextBox  does not allow negative values  **\*Happens after checking for weight – if weight is valid, it will not check for this** | -1.6 | MessageBox showing  (Please enter a valid Height - no negative numbers!) | MessageBox showing  (Please enter a valid Height - no negative numbers!) | None |
| On CalcButton() press – WeightTextBox does not allow non-numerical values | M@ | MessageBox showing  (Please enter a numerical Weight value) | MessageBox showing  (Please enter a numerical Weight value) | None |
| On CalcButton() press – HeightTextBox does not allow non-numerical values  **\*Happens after checking for weight – if weight is valid, it will not check for this** | No# | MessageBox showing  (Please enter a numerical Height value) | MessageBox showing  (Please enter a numerical Height value) | None |

**\*Same deal with BMISearchTextBox happens when pressing SearchBtn**

BMI values Test

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item Tested** | **Test Data** | **Expected Result** | **Actual Result** | **Changes Required** |
| On CalcButton() press – CatLabel showing Underweight in Blue  Range < 18.5 | 52 Weight  1.7 Height  🡪 18 BMI | Underweight | Underweight | None |
| On CalcButton() press – CatLabel showing Healthy Weight in Green  Range 18.5 🡪 24.9 | 53.4 Weight  1.7 Height  🡪 18.5 BMI | Healthy Weight | Healthy Weight | None |
| 80.6 Weight  1.8 Height  🡪 24.9 BMI | Healthy Weight | Healthy Weight | None |
| On CalcButton() press – CatLabel showing OverWeight in Orange  Range 25 🡪 29.9 | 81 Weight  1.8 Height  🡪 25 BMI | OverWeight | OverWeight | None |
| 96.9 Weight  1.8 Height  🡪 29.9 BMI | OverWeight | OverWeight | None |
| On CalcButton() press – CatLabel showing Obese in Red  Range >= 30 | 65 Weight  1.47 Height  🡪 30.1 BMI | Obese | Obese | None |
| On CalcButton() press – BMIMinLabel gives the correct Minimum value | 52 Weight  1.7 Height  🡪 18 BMI | 18 | 18 | None |
| 65 Weight  1.47 Height  🡪 30.1 BMI |
| 80.6 Weight  1.8 Height  🡪 24.9 BMI |
| On CalcButton() press – BMIMaxLabel gives the correct Maximum value | 52 Weight  1.7 Height  🡪 18 BMI | 30.1 | 30.1 | None |
| 65 Weight  1.47 Height  🡪 30.1 BMI |
| 80.6 Weight  1.8 Height  🡪 24.9 BMI |
| On CalcButton() press – BMIAveLabel gives correct average value  Ave = (v1 + v2 + v3 / 3) | 52 Weight  1.7 Height  🡪 18 BMI | 24.3 | 24.3 | None |
| 65 Weight  1.47 Height  🡪 30.1 BMI |
| 80.6 Weight  1.8 Height  🡪 24.9 BMI |
| On SearchBtn() press – FoundLabel shows Found in green | 30.1 | Found | Found | None |
| On SearchBtn() press –  FoundLabel shows Not Found in Red | 25 | Not Found | Not Found | None |