Test plan for Bolarinwa Iruemiobe

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| --- | --- | --- | --- |
| **Testnr** | **Actions done** | **Expected result** | **Actual result** |
| 1 | Enter the value 55.6 in the Score field and click on the Add button | Message: “Please enter a whole number” | Exception occurs |
| 2. | Enter and number between 0 and 100 | It should add successfully | It did |
| 3. | Enter -1 or 101 | It should not allow | It did not allow me to enter a negative number. But it allowed me to enter a number higher than 100 |
| 4. | Enter a number in another field | The input field should not accept values | It did |
| 5. | Entered 56 and 57 to get average scores. | It should give me 56.5 as average | It gave me 56 |
| 6 | I entered two sufficient scores and one insufficient score | It should give me 66% | It gave me 0 |
| 7 | I clicked on Display Scores | It should give me all previously entered scores | It did |
| 8 | I clicked on Clear Scores | It should clear all stored scores | When I clicked on Display scores afterwards, the scores are still there |
| 9 | I tried to enter letters as scores | It should not allow | It didnt |
| 10 | Checking the sufficient | It should give percentage | It doesn’t always work |
| 11 | Checking the sufficient | It should clear when the clear button is clicked | It doesnt |
| 12 | Exit button | Should end the program | It minimizes the program |

Efficiency:

For (int i = 0; i < 10; i++)

marks[i] = 0;

this is not necessary because the initialisation of the array creates this. So this is a duplication.

The countScore() method conditions states that if it is true and false at the same time. This can never happen so the condition is not met. Also i didnt really see the relevance. So i changed it to the below to get the number of scores higher than 55.

public int countMark(int score)

{ int nrOfElements;

nrOfElements = 0;

for (int i = 0; i < 11; i++)

{

if (marks[i] >55)

{

nrOfElements++;

}

}

return nrOfElements;

}

Finally this

double percSufficient = 100 \* ((marks[6] + marks[7] + marks[8] + marks[9] + marks[10]) / count);

serves no purpose because it simply gets a percentage of all the scores and not the scores that are more than 55. So I change it to

double percSufficient = Convert.ToDouble(countMark(score)) / Convert.ToDouble(marks.Length) \* 100;