**Question 1**

Table 1 Testcase for " PythagoreanCalculator "

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Input A** | **Input B** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| TC01 | Valid positive numbers | 3 | 4 | Hypotenuse (C) = 5.00 |  |  |
| TC02 | Empty input fields | (blank) | (blank) | Show validation message: “Please enter values...” |  |  |
| TC03 | Negative value in A | -5 | 12 | Show validation: “Please enter positive values...” |  |  |
| TC04 | Letters in input B | 6 | “abc” | Show validation: “Only numeric values are allowed.” |  |  |
| TC05 | Zero in A | 0 | 10 | Show validation: “Please enter positive values...” |  |  |
| TC06 | Use of Clear button after calculation | 8 | 6 | Inputs and result fields should be cleared |  |  |
| TC07 | Use of History button after multiple valid inputs | 3, 4 → 5 | 5, 12 → 13 | Display both calculations in ListBox |  |  |
| TC08 | Press History button before any calculation | N/A | N/A | Show “No calculation history available.” |  |  |

Table 2 Testcase Screenshot

|  |  |
| --- | --- |
| Test Case ID | Screenshot |
| TC01 |  |
| TC02 |  |
| TC03 |  |
| TC04 |  |
| TC05 |  |
| TC06 |  |
| TC07 |  |

GitHub Image (Insert here your Github screenshot image)

Git Image (Insert here your Git screenshot image after execute “git Log” Command)

**Question 02**

Table 3 Testcase for " CircleAreaCalculator "

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Input** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| TC\_01 | Valid positive radius | 5 | Area = 78.54 |  |  |
| TC\_02 | Blank input | (blank) | Show: “Please enter a value for the radius.” |  |  |
| TC\_03 | Input contains letters | abc | Show: “Only numeric values are allowed.” |  |  |
| TC\_04 | Negative input | -4 | Show: “Radius must be a positive number greater than zero.” |  |  |
| TC\_05 | Zero as input | 0 | Show: “Radius must be a positive number greater than zero.” |  |  |
| TC\_06 | Clear button resets inputs and result | 6 | Inputs and result are cleared |  |  |
| TC\_07 | History displays after multiple calculations | 3 → 5 → 7 | ListBox shows all three entries |  |  |
| TC\_08 | History clicked before any calculations | (N/A) | Show: “No calculation history available.” |  |  |

Table 4 Testcase Screenshot

|  |  |
| --- | --- |
| **Test Case ID** | Screenshot |
| TC\_01 |  |
| TC\_02 |  |
| TC\_03 |  |
| TC\_04 |  |
| TC\_05 |  |
| TC\_06 |  |
| TC\_07 |  |
| TC\_08 |  |

GitHub Image (Insert here your Github screenshot image)

Git Image (Insert here your Git screenshot image after execute “git Log” Command)