**Tip Calculator**

A Tip Calculator calculates the tip amount for various percentages of the cost of the service, and also provides a total amount that includes the tip.

**Functional Test Cases:-**

These are the following functional test cases to test the functionality of the calculator.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Bill Amount** | **Tip %** | **Number of People** | **Tip per person** | **Total Per Person** | **Remarks** |
| 1 | 500 | 10 | 2 | 25 | 275 |  |
| 2 | -10 | 10 | 2 | 0 | 0 | Invalid Input |
| 3 | 500 | 10 | 0 | 0 | 0 | Invalid Input |
| 4 | -500 | 10 | -2 | 0 | 0 | Invalid Input |
| 5 | 5000 | 8 | 5 | 80 | 1080 |  |
| 6 | abxyz | 15 | 5 | 0 | 0 | Invalid Input |
| 7 | Six hundred | two | two | 0 | 0 | Invalid Input |
| 8 | 1500 | 0 | 2 | 0 | 750 |  |
| 9 | 44545 | 100 | 100 | 445.5 | 890.90 |  |
| 10 | 1500 | -15 | -4 | 0 | 0 | Invalid Input |
| 11 | 20000.589 | 5 | 8 | 125 | 2625 |  |
| 12 | 150^3 | -12 | 5 | 0 | 0 | Invalid Input |
| 13 | 100000 | 5.9 | 8 | 737.50 | 13237.50 |  |
| 14 | “ ” | 34 | “ “ | 0 | 0 | Invalid Input |
| 15 | 00 | 5 | 8 | 0 | 0 |  |
| 16 | 34,56,2 | 12 | 8 | 0 | 0 | Invalid Input |
| 17 | 34wr5y6 | rtjh | 15 | 0 | 0 | Invalid Input |
| 18 | #$575\* | 7 | &\* | 0 | 0 | Invalid Input |
| 19 | 60000 | 18 | 40 | 270 | 1770 |  |
| 20 | 45+3\*5 | #$ | -3 | 0 | 0 | Invalid Input |
| 21 | 45678 | 6.5 | %# | 0 | 0 | Invalid Input |
| 22 | 8976 | 7\*6 | 7 | 0 | 0 | Invalid Input |
| 23 | 8009765 | 9.7 | thirteen | 0 | 0 | Invalid Input |
| 24 | 234754 | 13.5 | 7.5 | 0 | 0 | Invalid Input |

**User Interface Testing:-**

1. Verify all the buttons are present and text written on them are readable.
2. Check the alignment of the text is proper.
3. Check all the GUI elements for size, position, width, length and acceptance of characters or numbers.
4. Check the colors of the font and the buttons are working properly.
5. Check error messages are displayed correctly.
6. Check the positioning of the GUI elements for different screen resolution.
7. Testing of all the spellings.