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| **Testing Various functionalities of Tip Calculator application**    Project Name: Tip Calculator Application  Technology Used: .NET 6.0 windows Form and C#  Things to Know before using the App:  1.Tip Calculator is developed in such a way that it only takes numeric be it integer or decimal values in Bill Amount section and Tip Percentage Section.  2.Maximum Tip % is capped to 100%. Any value above 100% gives message to lower the tip %.  3.Number of People section only accepts non negative integer values.  4.Clear Button is used to reset the last entry.  5.use Calculate button to calculate tip amount  6. + and – buttons increments and decrements by 1 respectively.    Test Designed by: Abhishek Jha  Test Designed date: 23/01/2022  Test Executed by: Abhishek Jha  Test Execution date: 23/01/2022 |

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| **No.** | **Test Case -ID** | **Test case Objective** | **Prerequisite** | **Steps** | **Input data** | **Expect ed Result** | **Actual Result** | **Remarks/Status** |

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| 1. | TC1 | Testing the bill amount section | Tip Calculator should be launched | Enter the different values from keyboard | Any key from keyboard | Bill amount section will only accept non negative decimal values | Only decimal values accepted | Pass |
| 2. | TC2 | Testing the bill amount section  (Increment button) | Tip Calculator should be launched | Press the increment button next to bill amount section | We can either input values in bill amount section but it is not mandatory | Increments the value of bill amount section by 1. | Value in the bill amount section incremented | Pass |
| 3. | TC3 | Testing the bill amount section  (Decrement button | Tip Calculator should be launched | Press the Decrement button next to bill amount section | We can either input values in bill amount section but it is not mandatory | Decrements the value of bill amount section by 1. | Value in the bill amount section Decremented.  2.Value should only decrement till 0. | Pass |
| 4. | TC4 | Testing the Tip percentage section | Tip Calculator should be launched | Type The value in the keyboard. It only accepts non negative decimal values | Non negative decimal input | Tip Percent section only accepts Non negative decimal values | As Expected | Pass |
| 5. | TC5 | Testing the Tip Percent section  (Increment button) | Tip Calculator should be launched | Press the increment button next to  Tip % section | Does Not require any input values.  (Optional to input in Tip% section) | Increments tip % by 1.  2.But only increments till 100% | As Expected | Pass |
| 6. | TC6 | Testing the Tip Percent section  (Decrement button) | Tip Calculator should be launched | Press the Decrement button next to  Tip % section | Does Not require any input values.  (Optional to input in Tip% section) | Decrements tip % by 1.  2.But only Decrements till 0%. | As Expected | Pass |
| 7. | TC7 | Testing the Number of People section | Tip Calculator should be launched | Enter the value in no. Of people section | We can press any key but it only accepts non negative integer values | If value entered is non negative integer it is displayed | As Expected | Pass |
| 8. | TC8 | Testing the Number of People section  (Increment button) | Tip Calculator should be launched | Press the + button provided next to No. Of People | Does Not require any input values.  (Optional to input in No. Of People section) | Increments No. Of People section value by 1. | As expected | Pass |
| 9. | TC9 | Testing the Number of People section  (Decrement button) | Tip Calculator should be launched | Press the - button provided next to No. Of People | Does Not require any input values.  (Optional to input in No. Of People section) | Decrements No. Of People section value by 1. | As expected | Pass |
| 10. | TC10 | Testing the Calculate button | Tip Calculator should be launched | Input valid values in Bill amount,Tip% and No.of people section  Press Calculate | 1.Calculates the tip to be paid per person.  2.Also Calculates total amount to be paid by per person. | Values displayed in respective sections | As expected | Pass |
| 11. | TC11 | Testing the Clear button | Tip Calculator should be launched | Press the clear button | NA | Resets the data in bill amount, Tip% and No. Of people to 0 | As expected | Pass |
| 12. | TC12 | Testing Functionality of Tip Calculator | Tip Calculator should be launched | 1.Enter the data given in input data column  2.Press Calculate | Bill amount:0  Tip %:0  No.Of People:1 | Tip Per Person:0  Total Per Person:0 | Tip Per Person:0 Total Per Person:0 | Pass |
| 13. | TC13 | Testing Functionality of Tip Calculator | Tip Calculator should be launched | 1.Enter the data given in input data column  2.Press Calculate | Bill amount:999  Tip %:112  No.of People:2 | Message showing Tip % cannot be more than 100% | As expected | Pass |
| 14. | TC14 | Testing Functionality of Tip Calculator | Tip Calculator should be launched | 1.Enter the data given in input data column  2.Press Calculate | Bill amount:990  Tip %:50  No.of People:5 | Tip Per Person:99 Total Per Person:297 | Tip Per Person:  99  Total Per Person:  297 | Pass |
| 15. | TC15 | Testing Functionality of Tip Calculator | Tip Calculator should be launched | 1.Enter the data given in input data column  2.Press Calculate | Bill amount:990.5  Tip %:12.5  No.Of People:6 | Tip Per Person:20.635  Total Per Person:185.718 | Tip Per Person:  20.635 Total Per Person:  185.718 | Pass |
| 16. | TC16 | Testing Functionality of Tip Calculator | Tip Calculator should be launched | 1.Enter the data given in input data column  2.Press Calculate | Bill amount:0  Tip %:50  No.Of People:2 | Tip Per Person:0  Total Per Person:0 | Tip Per Person:0 Total Per Person:0 | Pass |
| 17. | TC17 | Testing Functionality of Tip Calculator | Tip Calculator should be launched | 1.Enter the data given in input data column  2.Press Calculate | Bill amount:125  Tip %:0  No.Of People:5 | Tip Per Person:0  Total Per Person:25 | Tip Per Person:0 Total Per Person:  25 | Pass |
| 18. | TC18 | Testing Functionality of Tip Calculator | Tip Calculator should be launched | 1.Enter the data given in input data column  2.Press Calculate | Bill amount:125  Tip %:10  No.Of People:0 | Message to increase number of people | Message to increase number of people | Pass |
| 19. | TC19 | Testing Functionality of Tip Calculator | Tip Calculator should be launched | 1.Enter the data given in input data column  2.Press Calculate | Bill amount:1000  Tip %:50  No.Of People:8 | Tip Per Person:62.5  Total Per Person:187.5 | Tip Per Person:  62.5  Total Per Person:  187.5 | Pass |
| 20. | TC20 | Testing Functionality of Tip Calculator | Tip Calculator should be launched | 1.Enter the data given in input data column  2.Press Calculate | Bill amount:140.44  Tip %:16.4  No. of People:2 | Tip Per Person:  11.516 Total Per Person:81.736 | Tip Per Person:  11.516  Total Per Person:  81.736 | Pass |