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### **GrapeCity Placement Test**

#### **Tip Calculator Windows Form (C# - .NET):**

##### **Functional Test Cases**

1. Decrease Tip% less than 0 and it should give error message as tip can never be negative.
2. Try decrementing Number of people to less than 1 and it should give error as when paying bill, there should be at least one employee whom the customer can pay.
3. Try incrementing the Tip when bill amount field is empty, it should give error message as how calculations can be performed on blank bill.
4. Try decrementing the Tip when bill amount field is empty, it should give error message as how calculations can be performed on blank bill.
5. Try incrementing the Number of people when bill amount field is empty, it should give error message as how calculations can be performed on blank bill.
6. Try decrementing the Number of people when bill amount field is empty, it should give error message as how calculations can be performed on blank bill.
7. Try incrementing the Tip when bill amount is 0, it should give error message as bill cannot be 0 and any x% tip of 0 would be 0 only hence reset all fields function should be called.
8. Try decrementing the Tip when bill amount is 0, it should give error message as bill cannot be 0 and any x% tip of 0 would be 0 only hence reset all fields function should be called.
9. Try incrementing the Number of people when bill amount is 0, it should give error message as bill cannot be 0 hence reset all fields function should be called.
10. Try decrementing the Number of people when bill amount is 0, it should give error message as bill cannot be 0 hence reset all fields function should be called.
11. Try incrementing the Tip when bill amount is less than 0 (bill < 0), it should give error message as bill cannot be less than 0 hence reset all fields function should be called.
12. Try decrementing the Tip when bill amount is less than 0 (bill < 0), it should give error message as bill cannot be less than 0 hence reset all fields function should be called.
13. Try incrementing the Number of people when bill amount is less than 0 (bill < 0), it should give error message as bill cannot be less than 0 hence reset all fields function should be called.
14. Try decrementing the Number of people when bill amount is less than 0 (bill < 0), it should give error message as bill cannot be less than 0 hence reset all fields function should be called.
15. Try entering only alphabet or special character in bill amount field, and then try to increment Tip %, it should give an error that input given is invalid.
16. Try entering only alphabet or special character in bill amount field, and then try to decrement Tip %, it should give an error that input given is invalid.

17. Try entering only alphabet or special character in bill amount field, and then try to increment Number of people, it should give an error that input given is invalid.
18. Try entering only alphabet or special character in bill amount field, and then try to decrement Number of people, it should give an error that input given is invalid.
19. Try entering some invalid bill amount say "100.5.1", and then try to increment Tip %, it should give an error that input given is invalid.
20. Try entering some invalid bill amount say "100.5.1", and then try to decrement Tip %, it should give an error that input given is invalid.
21. Try entering some invalid bill amount say "100.5.1", and then try to increment Number of people, it should give an error that input given is invalid.
22. Try entering some invalid bill amount say "100.5.1", and then try to decrement Number of people, it should give an error that input given is invalid.
23. Enter some proper bill amount in Bill box field, and then try to increment the Tip % and check whether the Tip % incremented or not.
24. Enter some proper bill amount in Bill box field, and then try to decrement the Tip % and check whether the Tip % decremented or not.
25. Enter some proper bill amount in Bill box field, and then try to increment the Number of people and check whether the Number of people incremented or not.
26. Enter some proper bill amount in Bill box field, and then try to decrement the Number of people and check whether the Number of people decremented or not.
27. After some valid input in bill field, try to reduce the Tip % to less than 0%, and check whether the error message is shown or not.
28. After some valid input in bill field, try to reduce the Number of people to less than 1, and check whether the error message is shown or not.
29. Check whether the calculated Tip per person is correct every time we change the value, either in Bill, Tip % or Number of people.
30. Check whether the calculated Total per person is correct every time we change the value, either in Bill, Tip % or Number of people.

## **UI Test Cases**

1. Tip % increment button is active even after it is clicked multiple times continuously.
2. Tip % decrement button is active even after it is clicked multiple times continuously.
3. Number of people increment button is active even after it is clicked multiple times continuously.
4. Number of people decrement button is active even after it is clicked multiple times continuously.
5. Tip % increment button is still active even after some other button is clicked.
6. Tip % decrement button is still active even after some other button is clicked.
7. Number of people increment button is still active even after some other button is clicked.
8. Number of people decrement button is still active even after some other button is clicked.
9. After changing bill amount, all buttons are active and clickable.

10. Text size is consistent on error message.
11. Text size is consistent on all buttons.
12. Text size is consistent for calculated Tip per person and Total per person.
13. User can successfully dismiss the error message window.
14. Text is not overflowing on buttons.
15. Text is not overflowing on error message window.
16. Text is not flowing out of form window.
17. Placement of buttons and text is always consistent.
18. Text style, size, colour and spelling is matching exactly with the mocks.
19. Buttons style, size, colour and spelling is matching exactly with the mocks.