**Experiment No:1** Identify system specification and design test cases for simple calculator application.

| Sr No. | Test_id | Test Case scenario | Test Input | Actual Output | Expected Output | Status of Test Case |
|---|---|---|---|---|---|---|
| 1 | TC-01 | To add two integers and display the result | A=23 B=34 | 57 | 57 | Pass |
| 2 | TC-02 | To add two real numbers and display the result | A=20.2 B=34 | 54.2 | 54 | Fail |
| 3 | TC-03 | To Subtract two integer and display the result | A=344 B=100 | 200 | 200 | Pass |
| 4 | TC-04 | To Subtract two integer and display the result | A=344 B=100 | 200 | 199 | Fail |
| 5 | TC-05 | To multiply two integer and display the result | A=4 B=3 | 12 | 12 | Pass |
| 6 | TC-06 | To multiply two integer and display the result | A=4 B=3 | 12 | 18 | Fail |
| 7 | TC-07 | To divide two integer and display the result | A=200 B=5 | 40 | 37 | Fail |
| 8 | TC-08 | To divide two integer and display the result | A=200 B=5 | 40 | 40 | Pass |
| 9 | TC-09 | To clear the screen | Press C | Symbol '0' should appear on screen | Symbol '0' should appear on screen | Pass |

| 10 | TC-10 | To clear the screen | Press C | Symbol '0' should appear on | Error | Fail |
|----|-------|---------------------|---------|----------------------------|-------|------|

| | | | | screen | | |
|----|-------|---------------------------|---------------|-----------------------------------------------------|---------------------------------------------------------------|------|
| 11 | TC-11 | To delete digits one by one | Press Back | One Digit should be deleted from right hand side | One Digit should be deleted from right hand side | Pass |
| 12 | TC-12 | To delete digits one by one | Press Back | One Digit should be deleted from right hand side | One Digit should be deleted from right hand side | Fail |
| 13 | TC-13 | To switch on the calculator | Press On | Symbol '0' should appear on screen | Symbol '0' should appear on screen | Pass |
| 14 | TC-14 | To switch on the calculator | Press On | Symbol '0' should appear on screen | Screen is blank | Fail |

| | | | | | | |
|---|---|---|---|---|---|---|
| 15 | TC-15 | To switch off the calculator | Press Off | Screen should be blank | Screen is Blank | Pass |
| 16 | TC-16 | To switch off the calculator | Press off | Screen Should | Screen is displaying | Fail |

| | | | | be blank | Error | |
|---|---|---|---|---|---|---|
| 17 | TC-17 | To multiply two fraction and display the result | A=2.5 B=2.5 | 6.25 | 6.25 | Pass |
| 18 | TC-18 | To multiply two fraction and display the result | A=5.3 B=6.5 | 34.45 | 36 | Fail |
| 19 | TC-19 | To check if all buttons work on Calculator | Press Button 1+2-(3)/4*5= | -0.75 | -0.75 | Pass |
| 20 | TC-20 | To check if all buttons work on Calculator | Press Button 1+2-(3)/4*5= | -0.75 | 0.74 | Fail |