# Test Summary Report – Online Calculator App

## 1. Introduction

This document provides a detailed quality assurance (QA) report for an online calculator application. The goal of this QA exercise is to validate core calculator functionalities, identify bugs, and assess the reliability and usability of the application through structured testing.

## 2. Scope of Testing

The testing is focused on basic calculator operations such as addition, subtraction, multiplication, division, and handling of decimal and edge-case inputs. The target platform is a publicly available online calculator website.

## 3. Test Environment

- Application Tested: Online Calculator (ecalculator.net)
- Platform: Web Browser (Chrome)
- OS: Windows/Android
- Tools Used: Google Sheets (Test Cases & Bug Report), Manual Execution

## 4. Test Case Summary

A total of 10 test cases were executed across different calculator operations. Each test case included a specific scenario, steps to reproduce, expected outcome, actual result, and pass/fail status.

- Total Test Cases: 10
- Test Cases Passed: 8
- Test Cases Failed: 2
- Pass Percentage: 80%

## 5. Bug Report Summary

Two functional bugs were identified during testing:

- BG001: Division by zero returns 'Infinity' instead of displaying a proper error message.
- BG002: Invalid input (e.g., symbols) clears input without alerting the user.

- High Severity Bugs: 1
- Medium Severity Bugs: 1
- Low Severity Bugs: 0

## 6. Recommendations

1. Implement validation and error handling for divide-by-zero operations to avoid unexpected outputs.
2. Add input validation to detect non-numeric characters and alert the user with a meaningful message.
3. Consider improving UI feedback when operations fail to execute correctly.

## 7. Conclusion

The calculator app performs well under normal input scenarios and provides accurate results. However, improvements are needed in handling edge cases like division by zero and invalid characters. Addressing these bugs will significantly enhance usability and prevent misleading outputs.