SILVER BULLETS

TEST PLAN

09/26/2015

Team Members

Resource Name	Role
Chris	Scribe
Megan	Time Keeper
Alex	Task Manager
Jameson	Quality Control

Version History/change log

Version #	Implemented By	Revision Date	Approved By	Approval Date	Reason for change
1.0					

Introduction

        This Test Plan will help communicate and document testing plans to team members. It includes objectives, test cases, test strategy, Hardware/software requirements, testing schedule and constraints.

        Objective of Test plan is to test the sugar activity calculator on SugarLabs. We will test for a variety of valid and invalid inputs. Since we are testing with a small program, there will be no need to break this into the testing of individual sub-systems. Methods within the class will be targeted.

Process for testing:
1. Outline possible correct and incorrect inputs
2. Define them, and pass them to the program
3. Compare actual result to expected result
4. Documentation of test cases

Test Strategy- We will mainly use unit testing to test individual functions. Exploratory testing will play a large part in testing methods as the team is still new to the calculator activity and will learn as we go.

Functions to test-
        Add function
        Div function
        Factorial function
        Mul function
        Mod function

Test recording procedures-
        Test cases for methods will all recorded in the Test Case Documentations.

  Silver Bullets:

Test Case Documentation

Test Case ID: 1, 2, 3, 4, 5	**Test Designed by:** Silver Bullests
Test Priority (Low/Medium/High): High	**Test Designed date:** 09/26/2015
Module Name: Add Function (1-4), Parentheses (5)	**Test Executed by:**
Test Title: Verify Add function is properly working, verify parentheses catches incomplete pairs	**Test Execution date:**
Description: Test Add Function, Test Incomplete Parentheses	

Pre-conditions: None

Test #	What is to be tested	Test Data	Expected Result	Actual Result	Status
1	Add the same positive and negative number.	-4+4	0		
2	Add two zeros	0+0	0		
3	Add two numbers with more than one addition operator	9+++0	Error Message		
4	Add two negative number	-1+ -1	-2		
5	Catch incorrect parentheses	(1+5	Error Message		

Post-conditions:

Hardware and software requirements

Testing will require Linux and a functional version SugarLabs with the calculator activity.

Constraints

Constraints include time, availability, and unknown variables that may occur.