Team 9 Quick Calc Test Procedure

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Revision History

Authors	Description of Change	Sections	Rev	Date
Brody Whelan	Added test cases arithmetic operators, history, binary, and hexadecimal	1,2,3	1	12/06/2023

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1 Team Description

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2 Introduction

Quick Calc is a calculator program that allows the user to complete a variety of calculations depending on their needs. This application does so by allowing users to perform arithmetic operations like addition, subtraction, modulo, multiplication and division. You can also convert a number to its binary or hexadecimal form.

2.1 Identification

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3 Test Procedures

3.1 Test Case 1

Description: Testing arithmetic operators and history function

Precondition:

1) Entering more than one operator between number inputs will result in an error.

Step Number	Action	System Response	Requirement Tested (if applicable)
1	User enters the first digit 500+7059.3	50+7059.3 is outputted to the display bar	
2		The result 7559.3 is outputted to the display bar	
	User enters equals button	and the calculation is sent to the history log	
3	User takes the result % 25	7559.3%25 is displayed	
4		The result outputted is 9.300000000000182 and	Showing if addition works
	User enters the equals button	the calculation is sent to log	with integers
5	User hits the clear button	The display bar has not output	
6		Error is displayed and not sent to history log	Invalid operations do not
	User enters 70.3+= by mistake		work
7	User hits clear then enters -10000 +	40600 is displayed	
	50600 =		
8		4 is displayed and the calculation and result are	
	User enters %17=	sent to the log	
9		A new window with the previous calculations is	History log should display
		shown:	all successful calculations
		500+7059.3 = 7559.3	
		7559.3%25 = 9.30000000000182	
		-10000+50600 = 40600	
	User hits the history button	40600%17 = 4	

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3.2 Test Case 2

Description: Testing hexadecimal conversion, binary conversion, and clear history

Precondition:

1) To use a bin or hex button the user must enter the number they want to convert first.

2) If the history log is open and the user wants to clear the log, they must close the window and re-open the history.

Step Number	Action	System Response	Requirement Tested
4		4501	(if applicable)
1	User enter 453	453 is outputted to the display bar	
2		1c5 is outputted to the display bar and sent to	
	User hits hex button	the history	
3	User clears the input and enters 5011	5011 is displayed	
4		1001110010011 is displayed and appended to	
	User selects the Bin button	the history log	
5		The history opens in a new window with the	
		following:	
	User hits the history button to look at	453 in hexadecimal: 1c5	
	their past calculations	5011 in binary: 1001110010011	
6	User closes the history log and hits the	The history log is cleared	
	C-H button to clear the history		

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3.3 Test Case 3

Description: Testing trigonometric and log functions

Precondition:

1) To use a trig or log button the user must enter the number they want to convert first.

2) Trig functions only work for numbers in radians.

Step Number	Action	System Response	Requirement Tested (if applicable)
1	User enters 50000	50000 is displayed	
2	The user hits the sin button to convert	-0.9998401890897896 is displayed and the	
	the sin	calculation is sent to the history log	
3	The user hits clear and enters 210	210 is displayed	
4		-0.8838 is displayed and the calculation is sent	
	The user hits the cos button	to the history log	
5	The user enters 150	150 is displayed to the log	
6		2.1760912590556813 is displayed and sent to	
	The user hits the log button	the history	
7	The user hits the clear button and	The display is cleared and 9000 is displayed	
	enters 9000		
8	The user hits the In button to take the	9.104979856318357 is outputted and sent to	
	nautral log	history	

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4 Verification Cross Reference Matrix

Requirement Identifier	Where Tested
Arithmetic operators	History log
Binary and Hexadecimal	
conversions	History log
Updating and clearing the	
history log	History log

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