

System Level Test

The following will ensure that each math operator performs the desired action. The tests will ensure that each math operator produces the correct answer. The tests will ensure usability of the program.

Multiplication Test

Action	Input	Expected Output
Launch Program Text:		"Enter your first number:"
Enter first number	2 <enter>	"Enter a math operator (+, -, *, /, ^):" Enter math operator * <enter> Text: "Enter
Enter math operator	* <enter>	"Enter your second number:"
Enter second number	7 <enter>	"2 * 7 = 14"
Return to main menu		Main Menu is displayed
Exit program	Q	"BUILD SUCCESSFUL"

Addition Test

Action	Input	Expected Output
Launch Program Text:		"Enter your first number:"
Enter first number	2 <enter>	"Enter a math operator (+, -, *, /, ^):" Enter math operator * <enter> Text: "Enter
Enter math operator	+ <enter>	"Enter your second number:"
Enter second number	7 <enter>	"2 + 7 = 9"
Return to main menu		Main Menu is displayed
Exit program	Q	"BUILD SUCCESSFUL"

Subtraction Test

Action	Input	Expected Output
Launch Program Text:		"Enter your first number:"
Enter first number	7 <enter>	"Enter a math operator (+, -, *, /, ^):" Enter math operator * <enter> Text: "Enter
Enter math operator	- <enter>	"Enter your second number:"
Enter second number	2 <enter>	"7 - 2 = 5"
Return to main menu		Main Menu is displayed

Exit program	Q	"BUILD SUCCESSFUL"
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Division Test

Action	Input	Expected Output
Launch Program Text:		"Enter your first number:"
Enter first number	10 <enter>	"Enter a math operator (+, -, *, /, ^):" Enter math operator * <enter> Text: "Enter
Enter math operator	/ <enter>	"Enter your second number:"
Enter second number	2 <enter>	"10 / 2 = 5"
Return to main menu		Main Menu is displayed
Exit program	Q	"BUILD SUCCESSFUL"

Power Test

Action	Input	Expected Output
Launch Program Text:		"Enter your first number:"
Enter first number	2 <enter>	"Enter a math operator (+, -, *, /, ^):" Enter math operator * <enter> Text: "Enter
Enter math operator	^ <enter>	"Enter your second number:"
Enter second number	7 <enter>	"2 ^ 7 = 128"
Return to main menu		Main Menu is displayed
Exit program	Q	"BUILD SUCCESSFUL"