Group 7

CS-362

Final Project Part A

Test Plan

Feature to be Tested: Operation module - multiplication:

Test Strategy: Direct calls to the multiplication function and then assert statements that compare number literals to the return values in valid, invalid, and boundary conditions.

Test Pass/Fail Criteria: All pairs of real numbers can be accepted as operands. It will output a non-rounded return value.

Feature to be Tested: Operation module - division:

Test Strategy: Direct calls to the division function and then assert statements that compare number literals to the return values in valid, invalid, and boundary conditions.

Test Pass/Fail Criteria: All pairs of real numbers can be accepted as operands, except that 0 can not be accepted as a divisor. Zero as the second operand will reutnr Undefined. It will output a return value rounded to 6 positions after the decimal point.

Feature to be Tested: Operation module – square root:

Test Strategy: Direct calls to the square root function and then assert statements that compare number literals to the return values in valid, invalid, and boundary conditions.

Test Pass/Fail Criteria: Any real number can be accepted as input. It will output a non-rounded return value.

Feature to be Tested: Operation module – number squared:

Test Strategy: Direct calls to the power two function and then assert statements that compare number literals to the return values in valid, invalid, and boundary conditions.

Test Pass/Fail Criteria: Any real number can be accepted as input. It will output a return value rounded to 6 positions after the decimal point.