1. Requirements:

1.The calculator is developed using standard C and should run on all machines supporting Gcc compiler

2) The program must include and display the following menu to the user: 1 Add 2 Subtract 3 Multiply 4 Divide 5 Power 6 Root 7 Factorial 8 Log 9 Log10 10 Exit

3) The program should only exit when the user enters 10

4) The program must print the result in equation form. [Ex.] <num1> + <num2> <result> = 4

5) The program must prevent the user from dividing by zero.

6) The program should display Invalid selection" if the user choses a menu option that is less than 1 or greater than 10.

7) operations will use either one or two numbers.

8) The program should prompt the user to provide numbers for the selected operation N

2.1 High Level Requirements

H1. Arithmetic Operations

H2. Exponential Operations

H3. Conversions

H4. Additional Functions

2.2 Low Level Requirements

L1. Addition

L2. Subtraction

L3. Division

L4. Multiplication

L5. Power

L6. Root

L7. Log

L8. Factorial

L9. Prime

L10. Conversions