## **TITLE**

# Lab 2 Report

**LAB #2** 

**SECTION #1** 

**FULL NAME:** 

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**SUBMISSION DATE:** 

1/31/23

**DATE** 

1/31/23

#### Problem

The purpose of this lab is to debug and output the correct results requested for the lab and take a screenshot. This lab will allow the user to become familiar with writing C programs and also solve problems with involving errors

### **Analysis**

The problems states to debug each code file and to output the correct stated in the lab. The problems consist of files code having errors and not being able to compile, in order to fix this the user needs to reads the line code in order to fix errors and have the correct output.

### Design

The problem was to debug

- Become familiar with writing simple C programs
- Solve problems involving simple arithmetic in C
- Work with C integer and floating-point math
- Introduce basic of C programming

#### **Testing**

After fixing the errors in the code, it would need to run in order to see if does the correct output, then if correct to screenshot a record of the work with code and compiler together. However, in some of the files of code had trouble outputting the correct solution, had to go over what was wrong in that line. We found the problem to be the scanf statement being called to the wrong variable, all it needed was to reword the statement and then it was able to output the correct solution

#### Comments

The lab gave more of an understanding on how to do pay attention to my code to keep it organized and readable for other viewers

## Screen Shots

```
U:\fall2022\se185\lab02\lab02-3.c - Notepad++
/cygdrive/u/fall2022/se185/lab02
                                                                                                                                - 0
                                                                                    nter your width: 2
nter a height: 64
. 2 by 64 rectangle's area is 128
                 Includes
                                                                                    abek9648C02048-18 /cygdrive/u/fall2022/se185/lab02
gcc lab02-3.c -o test
abek9648C02048-18 /cygdrive/u/fall2022/se185/lab02
./test
#include <stdio.h>
             /test
value of 77/5 is 0.000000, using integer math.
value of 2+3 is 0.
value 1.0/22.0 is 1952257862.
                                                                                    abek964@CO2048-18 /cygdrive/u/fall2022/se185/lab02
gcc lab02-3.c -o test
                                                                                    bek9648C02048-18 /cygdrive/u/fall2022/sc185/lab02

./test

e value of 77/5 is 15, using integer math.

e value of 243 is 5.

e value 1.0/22.0 is 0.045455.
       integer_result = 77 / 5;
printf("The value of 77/5 is %d, using integer math.\n", integer_result);
     integer_result = 2 + 3;
printf("The value of 2+3 is %d.\n", integer_result);
       decimal_result = 1.0 / 22.0;
printf("The value 1.0/22.0 is %lf.\n", decimal_result);
U:\fall2022\se185\lab02\lab02-5.c - Notepad++
                                                                                                                                           \square \times
<u>F</u>ile <u>E</u>dit <u>Search <u>V</u>iew <u>Encoding Language Settings Tools <u>M</u>acro <u>R</u>un <u>P</u>lugins <u>W</u>indow <u>3</u></u></u>

    Iab 02-4.c ☒
    Iab 02-1.c ☒

    Iab 02-5.c ☒

                                                  Includes
       #include <stdio.h>
  13 #include <math.h> // Google this header file to learn more! :)
  14
  15 日/*-----
  16 | Implementation
  int main(int argc, char *argv[])
  19 ₽{
            double a, b, c;
           double filler;
  23
            /* Put your code after this line */
  24
       scanf("%lf", &a);
  25
       scanf("%lf", &b);
  26
  27
        c = pow(a,2) + pow(b,2);
  28
  29
        //printf(pow(a,2)pow(b,2));
       printf("%lf",c);
           return 0;
                                                    /cvgdrive/u/fall2022/se185/lab02
                                                                                                           _ _
                                                     abek964@co1313-32 /cygdrive/u/fall2022/se185/lab02
gcc lab02-5.c -o test
                                                     abek964@co1313-32 /cygdrive/u/fall2022/se185/lab02
./test
                                                     abek964@co1313-32 /cygdrive/u/fall2022/se185/lab02
gcc lab02-5.c -o test
                                                     bek964@co1313-32 /cygdrive/u/fall2022/se185/lab02
./test
                                                     000000
bbek964@co1313-32 /cygdrive/u/fall2022/se185/lab02
                                                        length: 1,045 lines: 33 Ln: 27 Col: 23 Pos: 983
                                                                                                                  Unix (LF)
                                                                                                                                UTF-8
                                                                                                                                               INS
```

C source file

