EE 1910

Dr. Johnson

Program 4

No capabilities beyond those discussed in class or in the notes are allowed

Write a calculator program to request 2 integer values and provide the result from a series of operations.
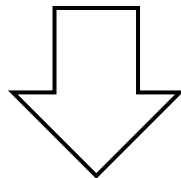Valid operations are: +, -, *, /, %, <<, >>, &, |, &&, ||

Use a while(1) loop to continuously ask for values.

Note: to print a % sign use %% (the % means something in our printf format)

Turn in your code, and screenshots for values of
5	9
12	15
20	4
40	2

Make sure you understand the results

Start with something like this

```c
/*
 * programming_4.c
 *
 *  Created on: Nov 17, 2021
 *      Author: johnsontimoj
 */
//////////////////////////////////
//
// Programming HW #4
//
// rev 0
//
//////////////////////////////////
//
// Program to use various operators
//
// inputs: user inputs a pair of ints
// outputs: the result of a series of operations is printed out
//
//////////////////////////////////

#include <stdio.h>      // only needed when printing

int main(void){
    setbuf(stdout, NULL);  // disable buffering when printing

    // splash
    printf("\n\nProgramming HW 4\n");
    printf("Welcome to Dr Johnson's operator program\n\n");

    int var1;
    int var2;
    int result;

    while(1){

        //YOUR CODE HERE

    }// end while

    return 0;
}// end main
```
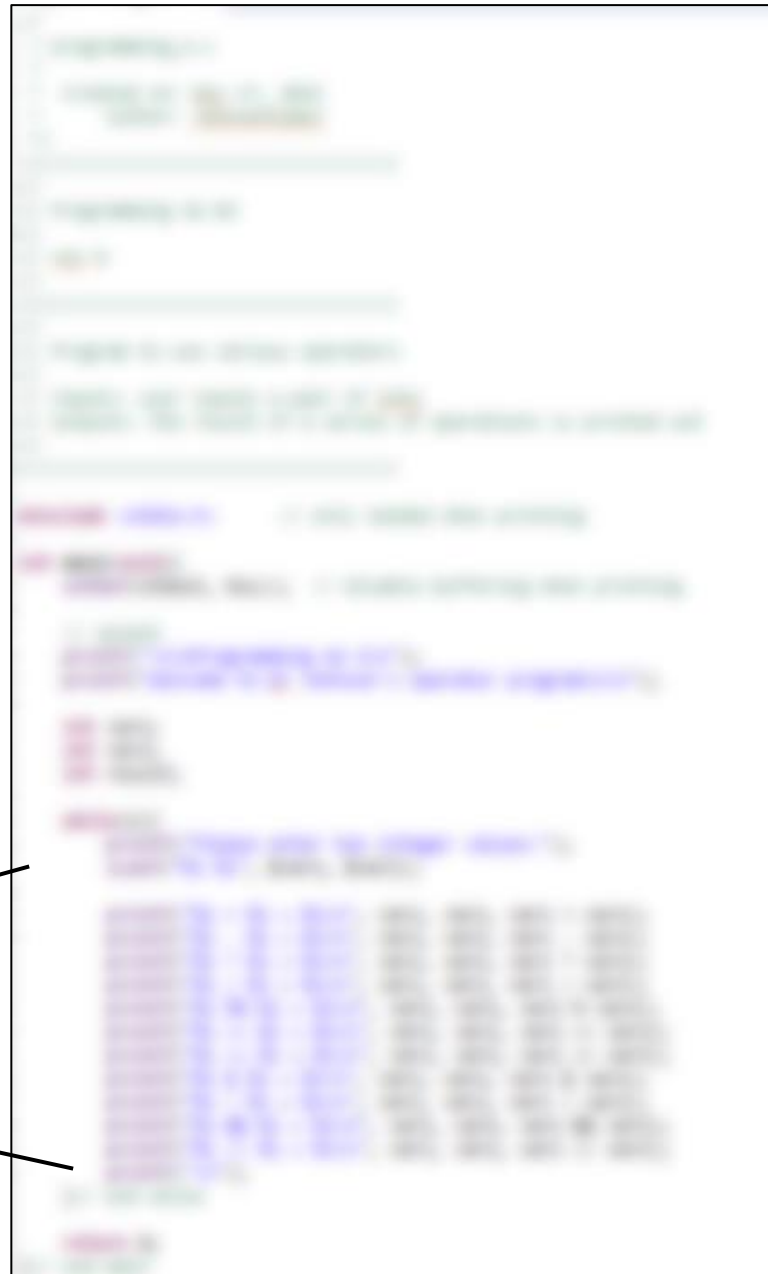
Your name

End up with something like this – check your values!

Your name

```
HW_Cons_project.exe [C/C++ Application] Z:\m

Programming HW 4
Welcome to Dr Johnson's operator program

Please enter two integer values:5 9
5 + 9 = 14
5 - 9 = -4
5 * 9 = 45
5 / 9 = 0
5 % 9 = 5
5 << 9 = 2560
5 >> 9 = 0
5 & 9 = 1
5 | 9 = 13
5 && 9 = 1
5 || 9 = 1

Please enter two integer values:12 5
12 + 5 = 17
12 - 5 = 7
12 * 5 = 60
12 / 5 = 2
12 % 5 = 2
12 << 5 = 384
12 >> 5 = 0
12 & 5 = 4
12 | 5 = 13
12 && 5 = 1
12 || 5 = 1
```

```
Please enter two integer values:20 4
20 + 4 = 24
20 - 4 = 16
20 * 4 = 80
20 / 4 = 5
20 % 4 = 0
20 << 4 = 320
20 >> 4 = 1
20 & 4 = 4
20 | 4 = 20
20 && 4 = 1
20 || 4 = 1

Please enter two integer values:40 2
40 + 2 = 42
40 - 2 = 38
40 * 2 = 80
40 / 2 = 20
40 % 2 = 0
40 << 2 = 160
40 >> 2 = 10
40 & 2 = 0
40 | 2 = 42
40 && 2 = 1
40 || 2 = 1
```