

# Project

Name: \_\_\_\_\_

Submit the source code and the output(s)

## GCD and LCM

Write a program that continually displays the greatest common divisor (GCD) and least common multiple (LCM) of the absolute values of two (2) integers until the inputs of the users are both (0). For this project create the following functions:

- `int abs(int value);`  
This function returns the absolute value of the parameter `value`.
- `int gcd(int x,int y);`  
This function returns the GCD of parameters `x` and `y`.
- `int lcm(int x,int y);`  
This function returns the LCM of parameters `x` and `y`.

**Hint: The LCM is the first number that is a multiple of two numbers.**

In the main, prompt the user to enter in two (2) integers; and then, display the GCD and LCM of the absolute values of the numbers. Continually do so until the users enters zero (0) for both numbers.

# Project Scoring

<b>Task</b>	<b>Points</b>
functioning abs() function	15 pts
functioning gcd() function	30 pts
functioning lcm() function	30 pts
main() function loop	15 pts
compiling pro- gram	10 pts
<b>Total</b>	<b>100 pts</b>