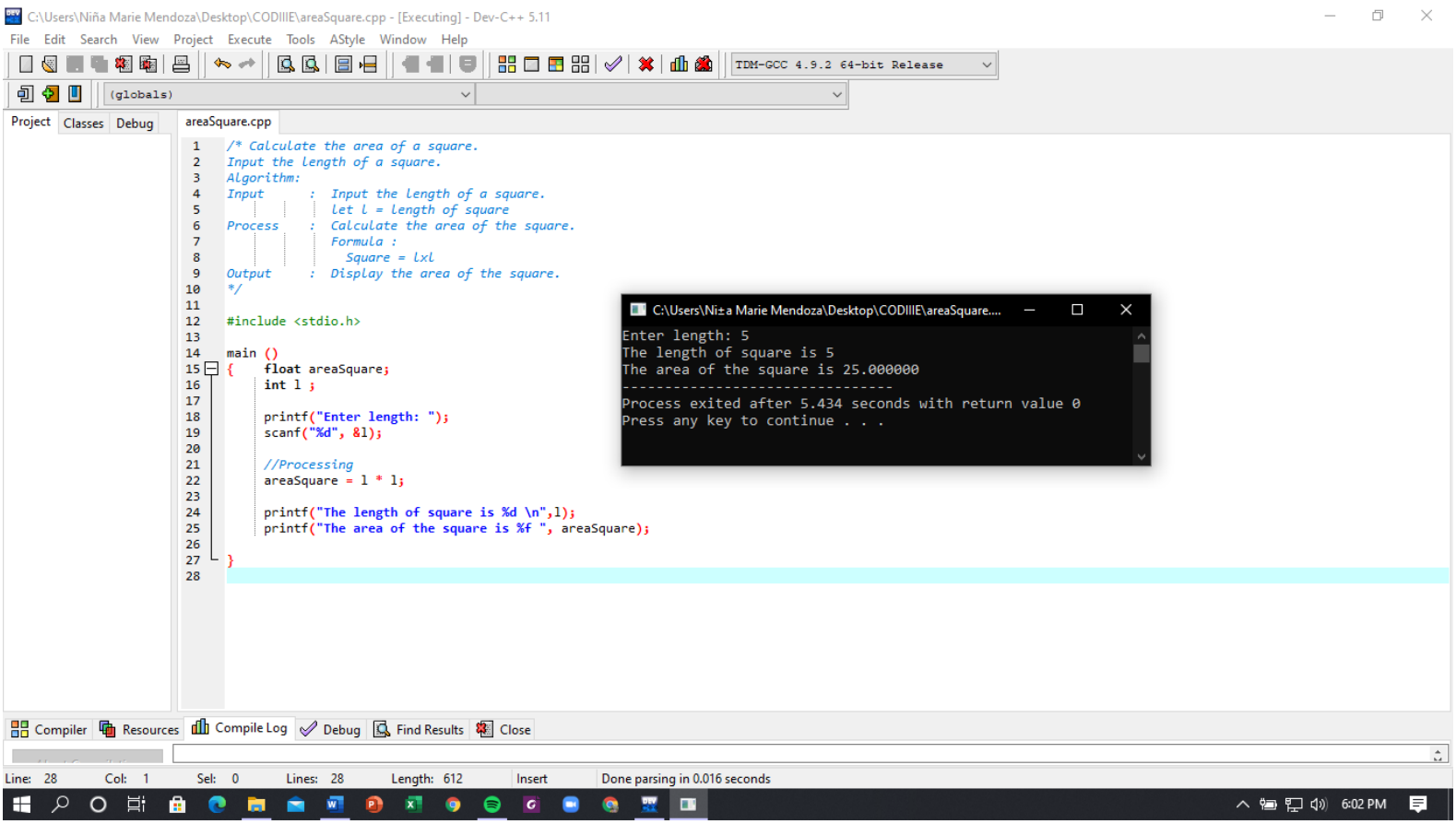
Mendoza, Niña Marie L.
BSIT-S-T-A1
Assignment No: 2

Oct 22, 2020
Ms. Josephine Andong
Computer Programming

1. Write a program which allows the user to enter the length of a square and which uses this number to calculate and display the area of the square.



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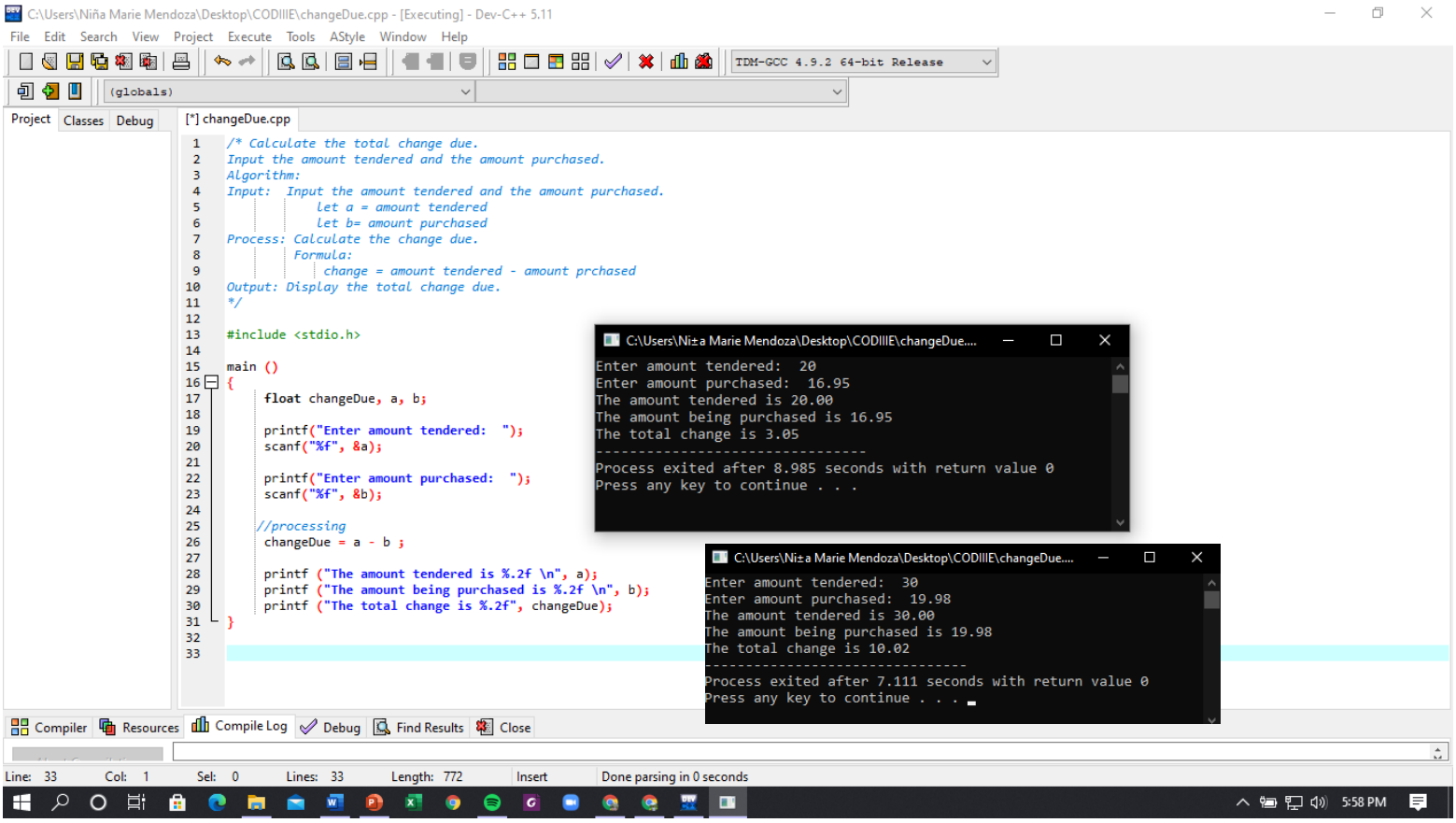
2. Write a program which accepts an amount of money from the user which represents the amount tendered for a purchase. Also, allow the user to enter the cost of the item being purchased. The program should calculate the change due and print this amount. The following could be used as sample output from your program:

   Enter the amount tendered: 20.00

   Enter the cost of the item: 16.95

   The change due is: 3.05



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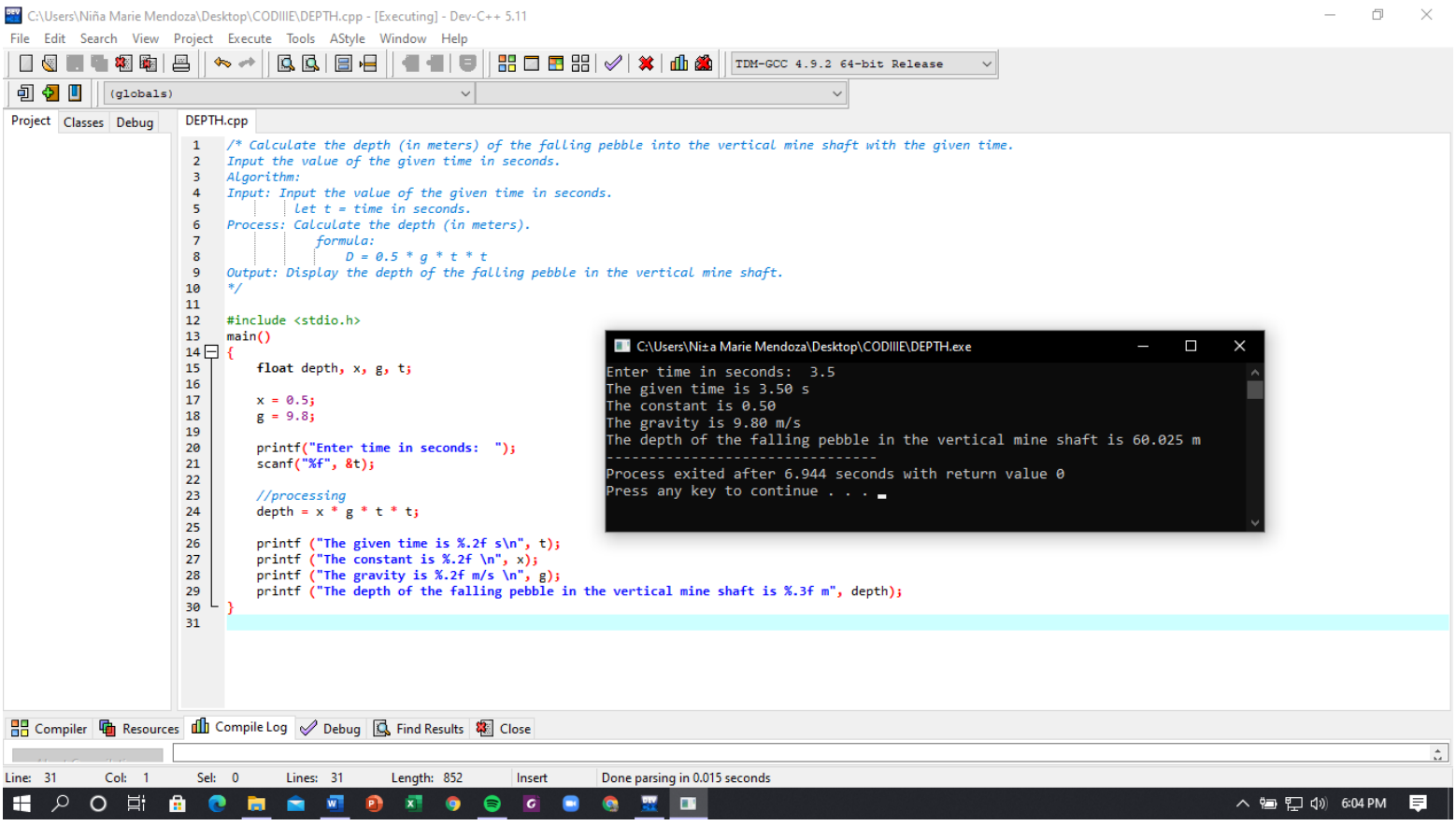
3. Write a program which can be used to calculate the depth (in metres) of a vertical mine shaft when the time is given for a pebble to fall down the shaft. Use the formula:

$$D = 0.5 * g * t * t$$

Where
- D is the depth of the mine shaft in metres;
- g is the acceleration due to gravity (9.8 m/s); and
- t is the time in seconds.



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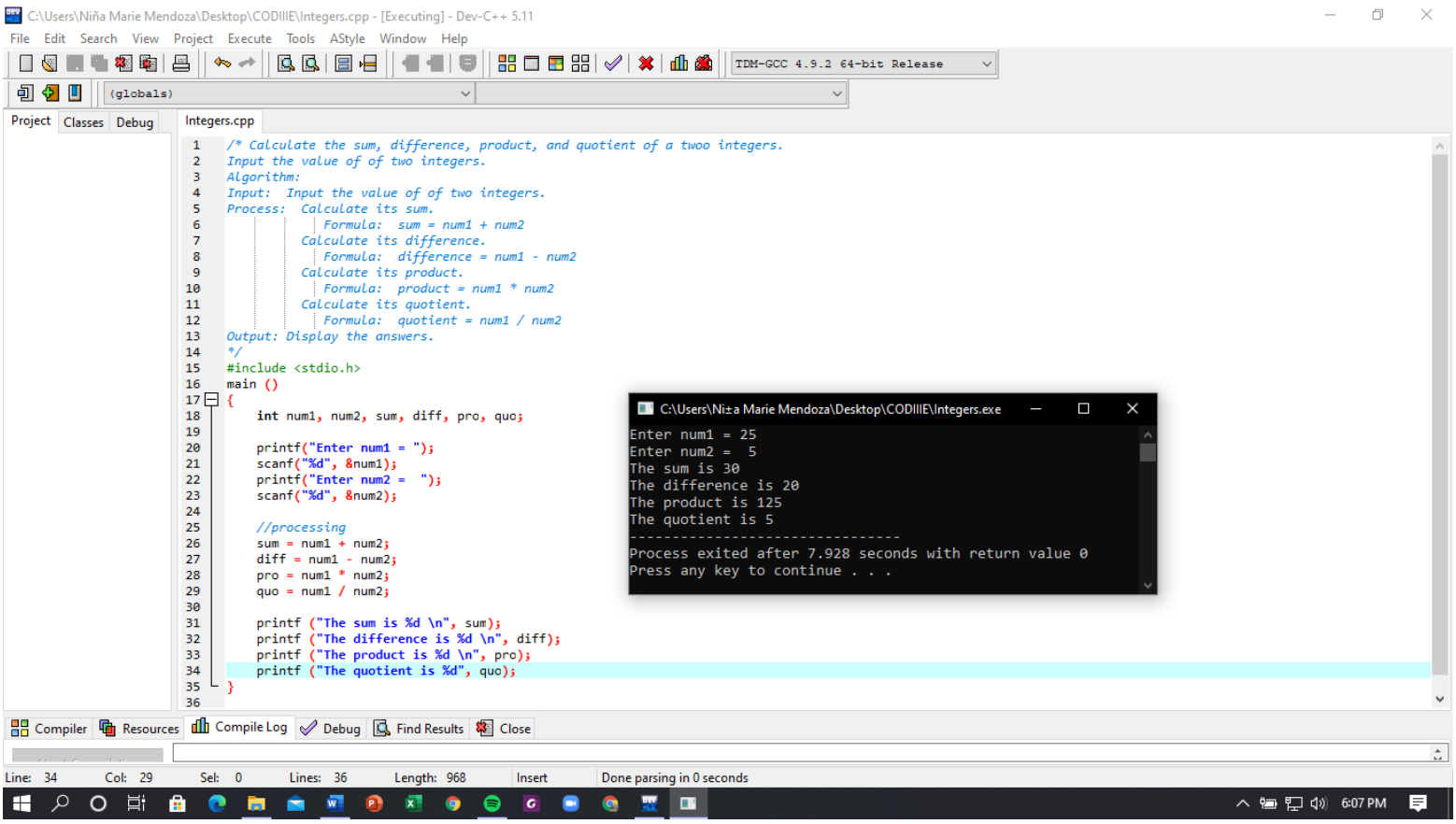
4. Write a C program that reads in two integers and then outputs their sum, difference, product and quotient.



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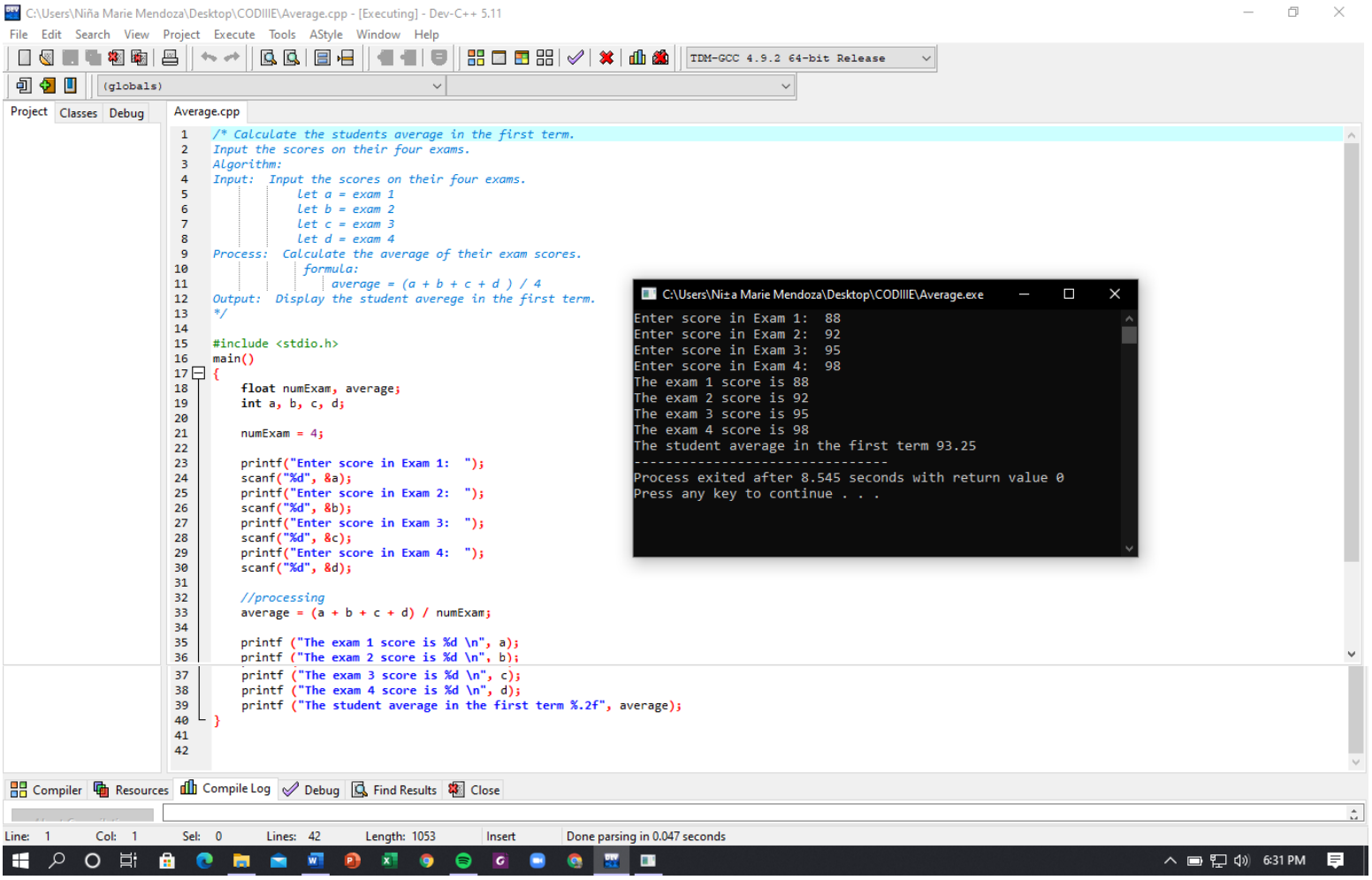
5. A class has four exams in one term. Write a program that reads in a student's four exam scores, as integer and outputs the student average.



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6. Write a program that reads in two integers into variable X and Y. Extract and display the integer quotient and the remainder of X divided Y.