POSTLAB #4 - CSE 1310

1. (*3 points*) what is an identifier? Describe the types of identifiers.

2. (4 points) stylistically, which of the following identifiers would be good choices for the names of constant macros?

gravity G MAX_SPEED Sphere_Size

3. (*4 points*) For the following mathematical formulas, write down the equivalent C arithmetic expressions:

Mathematical formula	C Expression
b^2-4ac	
$1/(1+x^2)$	
x=5a+bc	
(2x ÷ -y)(2y ÷ z)(2z ÷ -x)	

4. (*2 points*) What value is assigned to the type double variable x by the statement :

x=25.0 * 3.0 / 2.5

5. (2 points) What data types would you use to represent the following items: number of children at school, a letter grade on an exam, the average number of school days a child is absent each year?

6. (*5 points*) What is the function of the assignment operator?
Assume that you have the following variable declarations:
int intAssign, a, b, c;
double doubleAssign, x, y, z;
Evaluate each of the statements below using the following values:
a=7, b=3, c=9, x=2.0, y=4.0, z=8.0

a) doubleAssign = (a + b) * c

b) intAssign = (a + b) * (a - b)

c) doubleAssign = a / b

d) intAssign = a % b

e) doubleAssign = a - 5 + c

5. (*5 points*) Write a simple algorithm (pseudocode) that determines if a given integer is a multiple of 5. If the input provided is a multiple of 5 then the output should display “The number is a multiple of 5” and if it does not then should display “The number is **NOT** a multiple of 5”. You do not have to write the C program for this problem.

Deliverables:

1. E-mail the answers to all the questions to your lab instructor:
2. Submit hardcopy of all the answers during the lab time.

Sending E-Mail:

You can use Pine to send the e-mail. First, type answers to all questions in a file using ‘vi’ or ‘pico’. Attach this file with the e-mail and make the "Subject of message:" POSTLAB #4. Remember to send a copy to yourself just in case your instructor does not receive your message.