

## Programming with C Language

### Tutorial 03

Q1. Write four different C statements that each add 1 to integer variable x.

Q2. Write a single C statement to accomplish each of the following:

- a) Assign the sum of x and y to z and increment the value of x by 1 after the calculation.
- b) Multiply the variable product by 2 using the \*= operator.
- c) Multiply the variable product by 2 using the = and \* operators.
- d) Test if the value of the variable count is greater than 10. If it is, print "Count is greater than 10."
- e) Decrement the variable x by 1, then subtract it from the variable total.
- f) Add the variable x to the variable total, then decrement x by 1.
- g) Calculate the remainder after q is divided by divisor and assign the result to q. Write this statement two different ways.
- h) Print the value 123.4567 with 2 digits of precision. What value is printed?
- i) Print the floating-point value 3.14159 with three digits to the right of the decimal point. What value is printed?

Q3. Write single C statements that

- a) Input integer variable x with scanf.
- b) Input integer variable y with scanf.
- c) Initialize integer variable i to 1.
- d) Initialize integer variable power to 1.
- e) Multiply variable power by x and assign the result to power.
- f) Increment variable i by 1.
- g) Test i to see if it's less than or equal to y in the condition of a while statement.
- h) Output integer variable power with printf.