**Programming with C Language**

**Tutorial 03**

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

++x ( pre)

x++ ( post)

x+=1

x = x +1++

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.

x = x \* 2;

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.

total = total - --x;

f) Add the variable x to the variable total, then decrement x by 1.

total = total + x--;

g) Calculate the remainder after q is divided by divisor (d) and assign the result to q. Write this statement two different ways.

q = q % d;

q%=d;

h) Print the value 123.4567 with 2 digits of precision. What value is printed?

printf(“%.2f”, 123.456);

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.