b) quotient = 0, x = 6;

4.8 Identify and correct the errors in each of the following:

a) while ( c <= 5 )
   {
      product *= c;
      ++c;
   }

b) if ( gender == 1 )
    Console.WriteLine( "Woman" );
else;
    Console.WriteLine( "Man" );

a) Error: Missing the closing right brace of the while body.
Correction: Add closing right brace after the statement ++c;

b) Error: Semicolon after else results in a logic error. The second output statement
will always be executed.
Correction: Remove the semicolon after else.

4.9 What is wrong with the following while repetition structure?

while ( z >= 0 )
   sum += z;

The value of the variable z is never changed in the while structure. Therefore, if the loop
continuation condition ( z >= 0 ) is true, an infinite loop is created. To prevent the infinite loop, z
must be decremented so that it eventually becomes less than 0.