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| **EX01-01.cpp:** *GCD solution* |
| **Line#** | **Code** |
| 123456789101112131415161718192021222324 | #include <iostream>using namespace std;/// <summary>/// This function implements the Eucleain's Algorithm/// </summary>/// <param name="x">Must be > 0</param>/// <param name="y">Must be > 0</param>/// <returns>The Greatest Common Divisor of x and y</returns>unsigned long GCD(unsigned long x, unsigned long y) { while (y != 0) { unsigned long oldX = x; x = y; y = oldX % y; } return x;}int main(){ unsigned long n = 60; unsigned long d = 96; unsigned long gcd = GCD(n, d); cout << "GCD(" << n << "," << d << ") is " << gcd << endl; printf("%d/%d=>%d/%d",n,d,n/gcd,d/gcd);} |