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| **EX01-01.cpp:** *GCD solution* | |
| **Line#** | **Code** |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24 | #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);  } |