

```
1: #include <iostream>
2:
3: // Function to calculate the GCD of two numbers using the Euclidean algorithm
4: int gcd(int a, int b) {
5:     while (b != 0) {
6:         int temp = b;
7:         b = a % b;
8:         a = temp;
9:     }
10:    return a;
11: }
12:
13: int main() {
14:     int num1, num2;
15:
16:     std::cout << "Enter two numbers: ";
17:     std::cin >> num1 >> num2;
18:
19:     // Calculate the GCD
20:     int result = gcd(num1, num2);
21:
22:     std::cout << "GCD of " << num1 << " and " << num2 << " is " << result << std::endl;
23:
24:     return 0;
25: }
```