1. GCD using two numbers

Code:

#include <stdio.h>

int min(int a, int b) {

return (a < b) ? a : b;

}

int gcd(int a, int b, int i) {

if (i == 1)

return 1;

else if (a % i == 0 && b % i == 0)

return i;

else

return gcd(a, b, i - 1);

}

int main() {

int num1, num2, result;

printf("Enter two numbers: ");

scanf("%d %d", &num1, &num2);

result = gcd(num1, num2, min(num1, num2));

printf("GCD of %d and %d is %d\n", num1, num2, result);

return 0;

}

Output:

Enter two numbers: 56 23

GCD of 56 and 23 is 1

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Process exited after 165.9 seconds with return value 0

Press any key to continue . . .

