**Greatest Common Factor**

Given two numbers, identify the greatest common factor of the two numbers. The GCF of two integers, x and y, is the greatest positive integer m, which divides both x and y. The greatest common factor is commonly known as GCF. Here, greatest can be replaced with highest, and factor can be replaced with divisor.

Sample Output 1

Enter first num: 15

Enter second num: 80

GCF: 5

**CODE:**

#include <stdio.h>

int main()

{

int num1, num2, gcf;

printf("Enter first num: ");

scanf("%d", &num1);

printf("Enter second num: ");

scanf("%d", &num2);

while (num2 != 0) {

gcf = num2;

num2 = num1 % num2;

num1 = gcf;

}

printf("GCF: %d\n", gcf);

return 0;

}