C 02_activity.c > ...

```c
// Q36: Write a program to find the HCF (GCD) of two numbers.

/*
Sample Test Cases:
Input 1:
12 18
Output 1:
6

Input 2:
7 9
Output 2:
1

*/

#include <stdio.h>

int gcd(int num1, int num2) {
    if (num2 == 0)
        return num1;
    else
        return gcd(num2, num1 % num2);
}

int main() {
    int a, b;
    printf("Enter two integers: ");
    scanf("%d %d", &a, &b);

    printf("GCD of %d and %d is %d\n", a, b, gcd(a, b));
    return 0;
}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\02_activity.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
Enter two integers: 12 18
GCD of 12 and 18 is 6
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\02_activity.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
Enter two integers: 7 9
GCD of 7 and 9 is 1
PS C:\Users\drago\OneDrive\Desktop\C H.W>
```

C day19_q37.c > main()

```c
// Q37: Write a program to find the LCM of two numbers.

/*
Sample Test Cases:
Input 1:
4 5
Output 1:
20

Input 2:
7 3
Output 2:
21

*/

#include <stdio.h>

int main() {
    int a, b, max, lcm;
    scanf("%d %d", &a, &b);
    max = (a > b) ? a : b;
    lcm = max;
    while(1) {
        if (lcm % a == 0 && lcm % b == 0)
            break;
        lcm++;
    }
    printf("%d\n", lcm);
    return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day19_q37.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
4 5
20
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day19_q37.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
7 3
21
PS C:\Users\drago\OneDrive\Desktop\C H.W>
```