GANAVI HAL19CS033

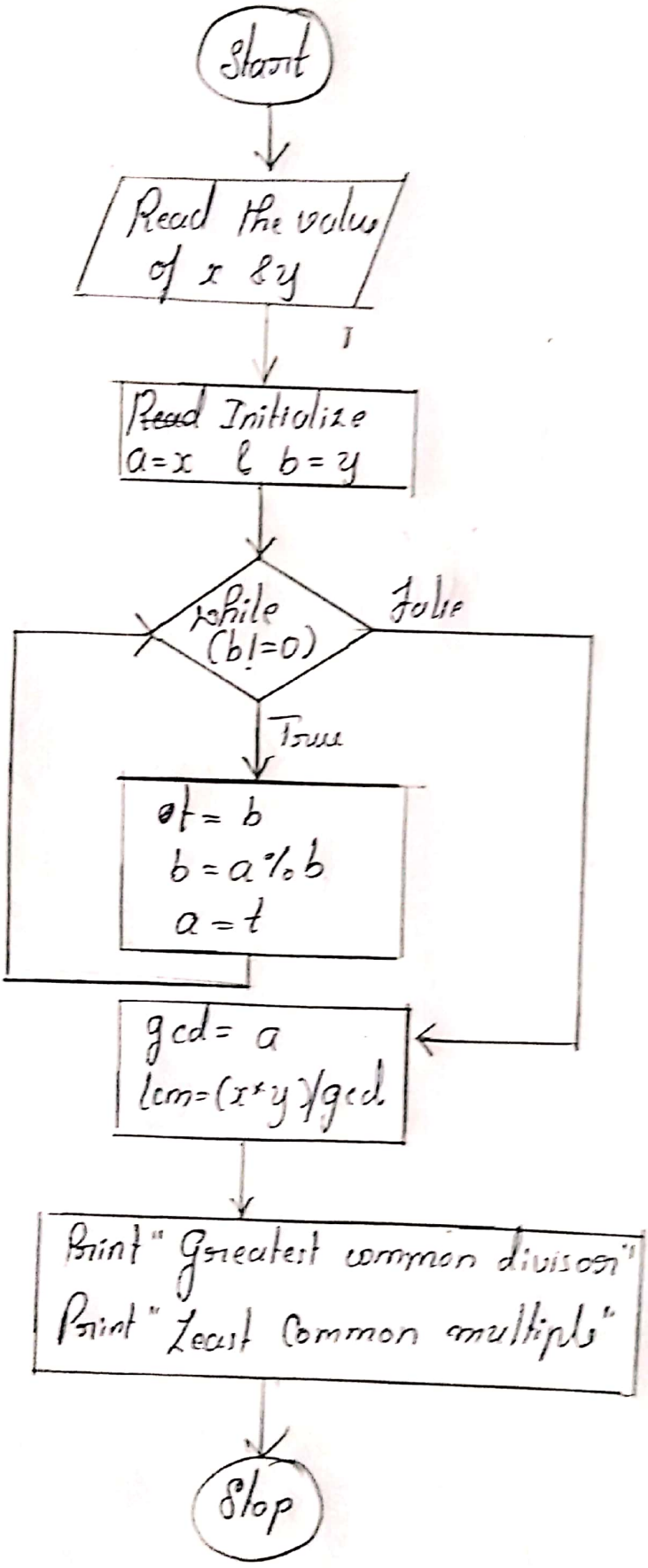
Program to find LCM & HCF

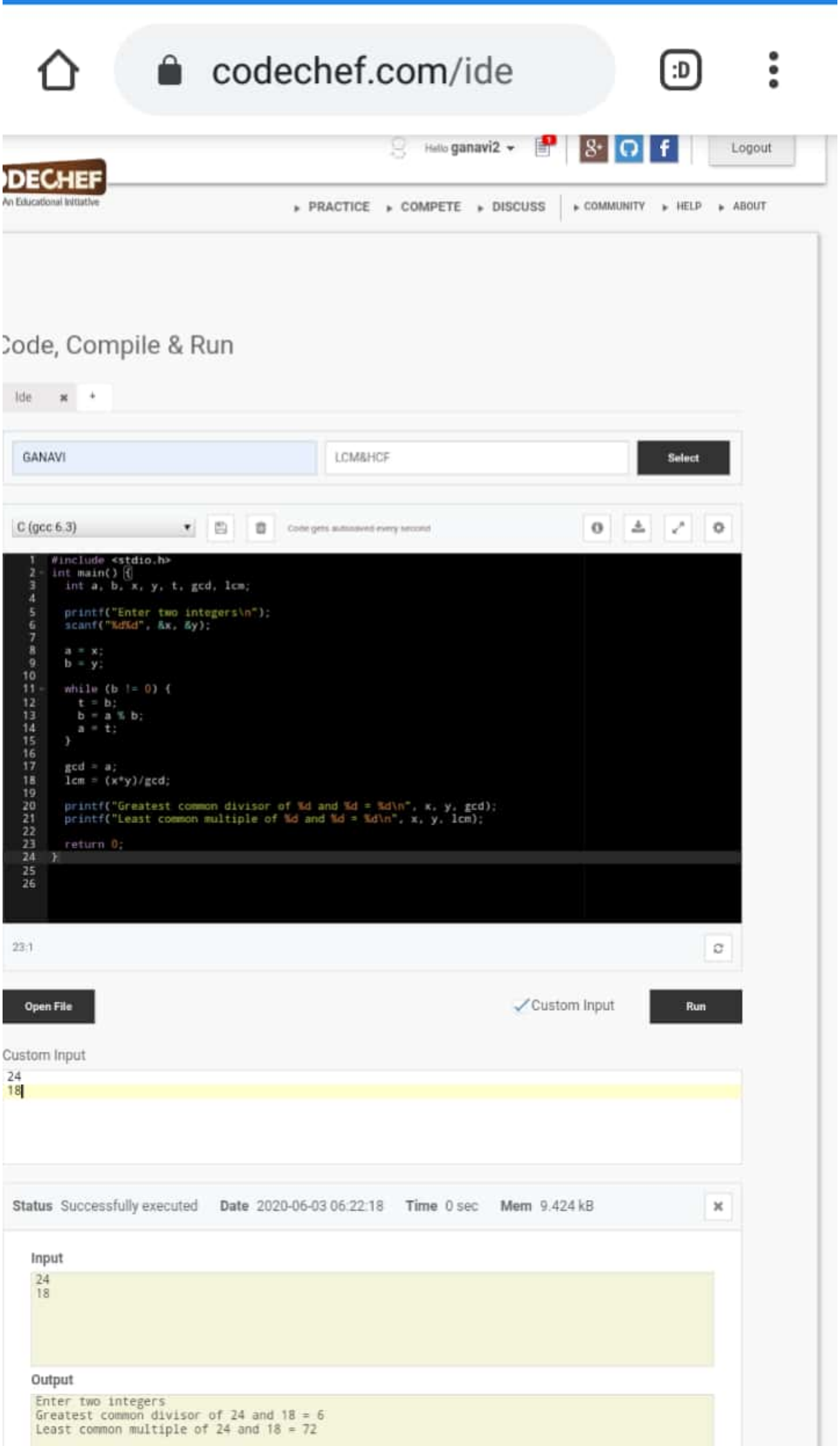
Algorithm

1. Start
2. Read the values of x & y
3. Initialize a=x and b=y
4. While (b!=0), if (b!=0) condition becomes false goto step 6
   - 4.1 t=b
   - 4.2 b= a%b
   - 4.3 a = t
5. Repeat the step 4 until the condition becomes false
6. gcd= a
7. lcm = (x*y)/gcd
8. Print "Greatest common divisor value & least common multiple value"
9. Stop.

HNH19CS033

Flowchart




codechef.com/ide
Hello ganavi2
Logout
DECHEF
An Educational Initiative
PRACTICE
COMPETE
DISCUSS
COMMUNITY
HELP
ABOUT
Code, Compile & Run
Ide
GANAVI
LCM&HCF
Select
C (gcc 6.3)
Code gets autosaved every second
#include <stdio.h>
int main() {
int a, b, x, y, t, gcd, lcm;
printf("Enter two integers\n");
scanf("%d%d", &x, &y);
a = x;
b = y;
while (b != 0) {
t = b;
b = a % b;
a = t;
}
gcd = a;
lcm = (x*y)/gcd;
printf("Greatest common divisor of %d and %d = %d\n", x, y, gcd);
printf("Least common multiple of %d and %d = %d\n", x, y, lcm);
return 0;
}
23:1
Open File
Custom Input
Run
Custom Input
24
18
Status Successfully executed
Date 2020-06-03 06:22:18
Time 0 sec
Mem 9.424 kB
Input
24
18
Output
Enter two integers
Greatest common divisor of 24 and 18 = 6
Least common multiple of 24 and 18 = 72