## WRITE A PROGRAM TO FIND THE GCD AND LCM OF TWO NUMBERS .WRITE THE ALGORITHM AND FLOWCHART OF THE PROGRAM.

```
Source code-
#include<stdio.h>
int main()
int a,b,gcd,lcm;
printf("enter the greatest no");
scanf("%d",&a);
printf("enter the smallest no");
scanf("%d",&b);
int prod=a*b;
while (a%b!=0)
{
gcd=a%b;
a=b;
b=gcd;
}
lcm=prod/gcd;
printf("%d",gcd);
printf("%d",lcm);
return 0;
}
output-
enter the greatest no. 25
enter the samllest no. 10
gcd 5
Icm 50
Algorithm-
step 1:start
step 2:input two numbers a and b
step 3:while a%b is not equal to 0
    • Gcd=a%b
    • A=b
    • B=gcd
Step 4:print a as the GCD
Step 5:calculate LCM using the formula LCM=(a*b)/gcd
Step 6:print LCM as the LCM
Step 7:stop
```

## Flowchart-

