

CODE :

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
int gcd,a,b;
```

```
clrscr();
```

```
printf("enter two numbers\n");
```

```
scanf("%d%d",&a,&b);
```

```
asm mov ax,a;
```

```
asm mov bx,b;
```

```
l1:
```

```
asm cmp ax,bx;
```

```
asm jz l;
```

```
asm jc m;
```

```
asm jmp n;
```

```
m:
```

```
asm sub bx,ax;
```

```
asm loop l1;
```

```
n:
```

```
asm sub ax,bx;
```

```
asm loop l1;
```

```
l:
```

```
asm mov gcd,ax;
printf("GCD of the two numbers is %d\n",gcd);
```

```
int a1,b1,temp;
printf("Please enter first number: ");
scanf("%d",&a1);
printf("Please enter second number: ");
scanf("%d",&b1);
```

```
temp = a1;
asm mov ax,a1
asm mov bx,b1
bck:
asm cmp ax,0000h
asm jz ex
asm cmp bx,0000h
asm jz ex
asm div bl
asm cmp ah,00h
asm jz ex
temp = temp + a1;
asm mov ax,temp
asm mov bx,b1
asm jmp bck
ex:
printf("The LCM is: %d\n",temp);
getch();
}
```

OUTPUT :

```
enter two numbers
12
18
GCD of the two numbers is 6
Please enter first number: 5
Please enter second number: 25
The LCM is: 25
```