Algorithm

int main ()

1. start

2. Read num1, num2

3. hcf = gcd(num1, num2)

4. Print hcf

5. Print "(num1 * num2)/hcf

6. stop

int gcd(int x, int y)
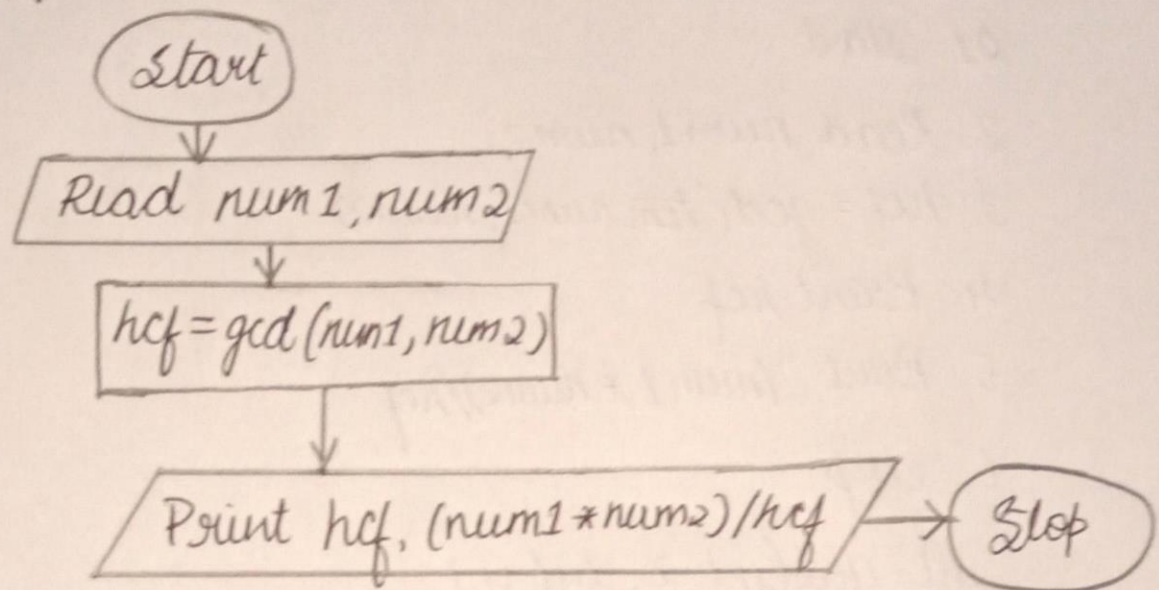
1. start

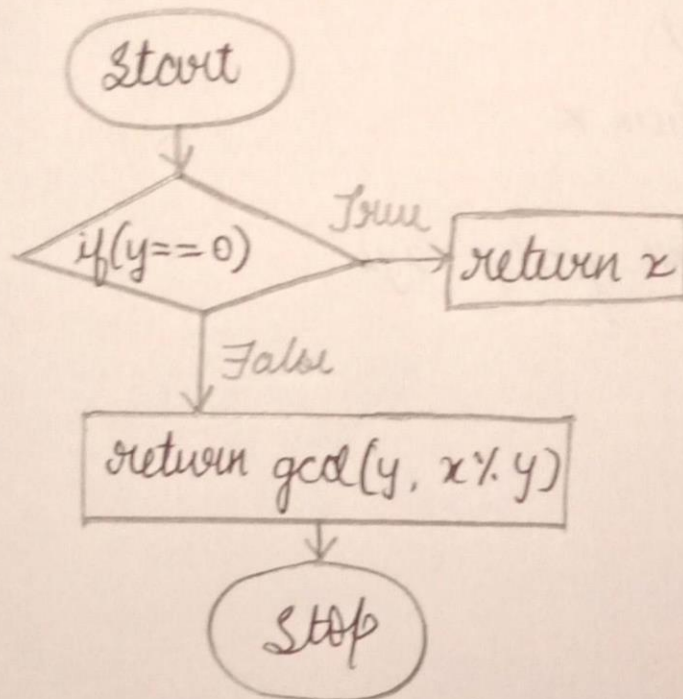2. if (y == 0)

    return x

3. else

    return gcd(y, x%y)

4. stop.

Flowchart

int main ()

```
        ( Start )
            |
            v
  / Read num1, num2 /
            |
            v
  | hcf = gcd (num1, num2) |
            |
            v
  / Print hcf, (num1 * num2)/hcf /  ----> ( Stop )
```

int gcd (int x, int y)

```
        ( Start )
            |
            v
      < if(y==0) >  --True-->  | return x |
            |
          False
            |
            v
  | return gcd (y, x % y) |
            |
            v
        ( Stop )
```

```c
1   #include <stdio.h>
2   int gcd(int x, int y);
3   int main()
4   {
5       int num1, num2, hcf, lcm;
6       printf("Enter two integer Values:\n");
7       scanf("%d %d", &num1, &num2);
8       hcf = gcd(num1, num2);
9       printf("GCD: %d\n", hcf);
10      printf("LCM: %d\n", (num1 * num2) / hcf);
11      return 0;
12  }
13  int gcd(int x, int y)
14  {
15      if (y == 0)
16      {
17          return x;
18      }
19      else
20      {
21          return gcd(y, x % y);
22      }
23  }
```

0:0

Open File

Custom Input

15
56

Status Successfully executed   Date 2020-07-04 09:25:10   Time 0 sec

Input

15
56

Output

Enter two integer Values:
GCD: 1
LCM: 840