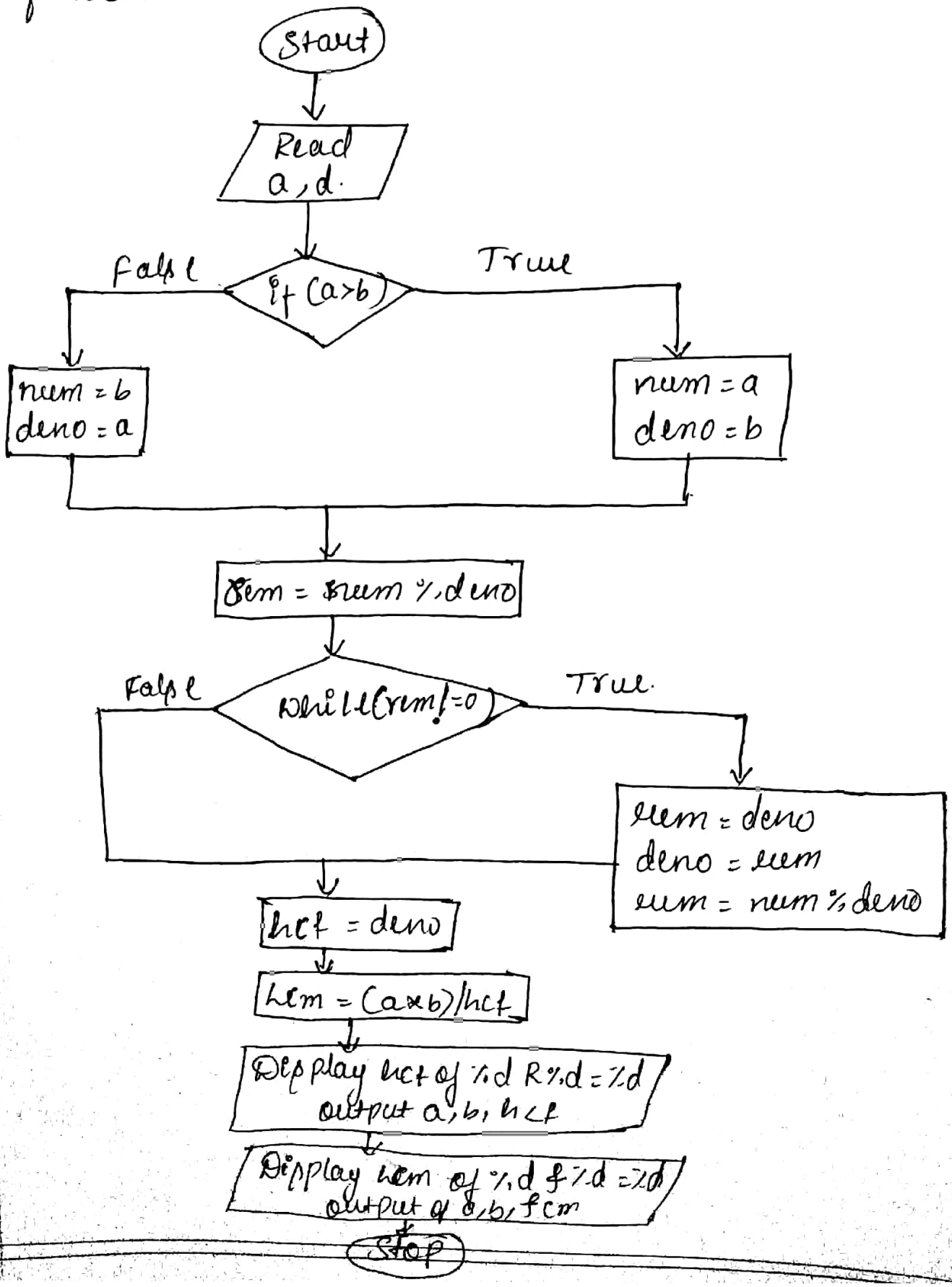
Shwavani MS ('F' section)
4AL19IS050

C program to find HCF and LCM of two numbers flowchart.



Shravani MS
4AL19IS050
'f' section

Algorithm

Step 1 : start

Step 2 : Display Enter two numbers
Input a, b

Step 3 : if (a > b)
num = a
deno = b
else
num = b
deno = a

Step 4 : rem = num % deno

Step 5 : while (rem != 0)
num = deno
deno = rem
rem = num % deno

Step 6 : hcf = deno

Step 7 : lcm = deno

Step 8 : Display hcf of %d and %d = %d
output a, b, hcf

Step 9 : Display LCM of %d and %d = %d
output a, b, LCM

Step 10 : stop

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Code, Compile & Run

Ide

C (gcc 6.3)

```
1  #include <stdio.h>
2  int main()
3  {
4   int a,b, lcm,hcf,rem,num,deno;
5   printf("enter two numbers:fn");
6   scanf(" %dfn %d",  &a, &b) ;
7   printf(" %dfn  %dfn",a,b) ;
8   if(a>b)
9   {
10      num=a;
11      deno=b;
12   }
13  else
14  {
15      num=b;
16      deno=a;
17  }
18      rem=num %deno ;
19      while(rem!=0)
20  {
21    num=deno;
22   deno=rem;
23   rem=num %deno;
24  }
25   hcf=deno;
26  lcm= (a *b)/hcf;
27   printf("hcf of  %d and  %d = %dfn",a,b,hcf) ;
28  printf("lcm of  %d and  %d = %d =  %dfn ",a,b,lcm) ;
```

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Open File | ✓Custom Input | Run

Custom Input

2627

Status Successfully executed Date 2020-06-03 15:55:09 Time 0 sec Mem 9.424 kB

Input

2627

Output

enter two numbers:fn 2627fn 22055fnhcf of 2627 and 22055 = 1fnlcm of 2627 and 22055 = 579