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USN: HALI9CS047
F section
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C program to find HCF and LCM of two numbers.

Flowchart

Start

Read a, b

If (a>b)

False → num = b ; deno = a

True → num = a ; deno = b

rem = num % deno

while (rem != 0)

True → rem = deno ; deno = rem ; rem = num % deno

hcf = deno

Lcm = (a*b) / hcf

Display hcf of %d & %d = %d
output a,b, hcf

Display Lcm of %d & %d = %d
output a,b, Lcm

Stop
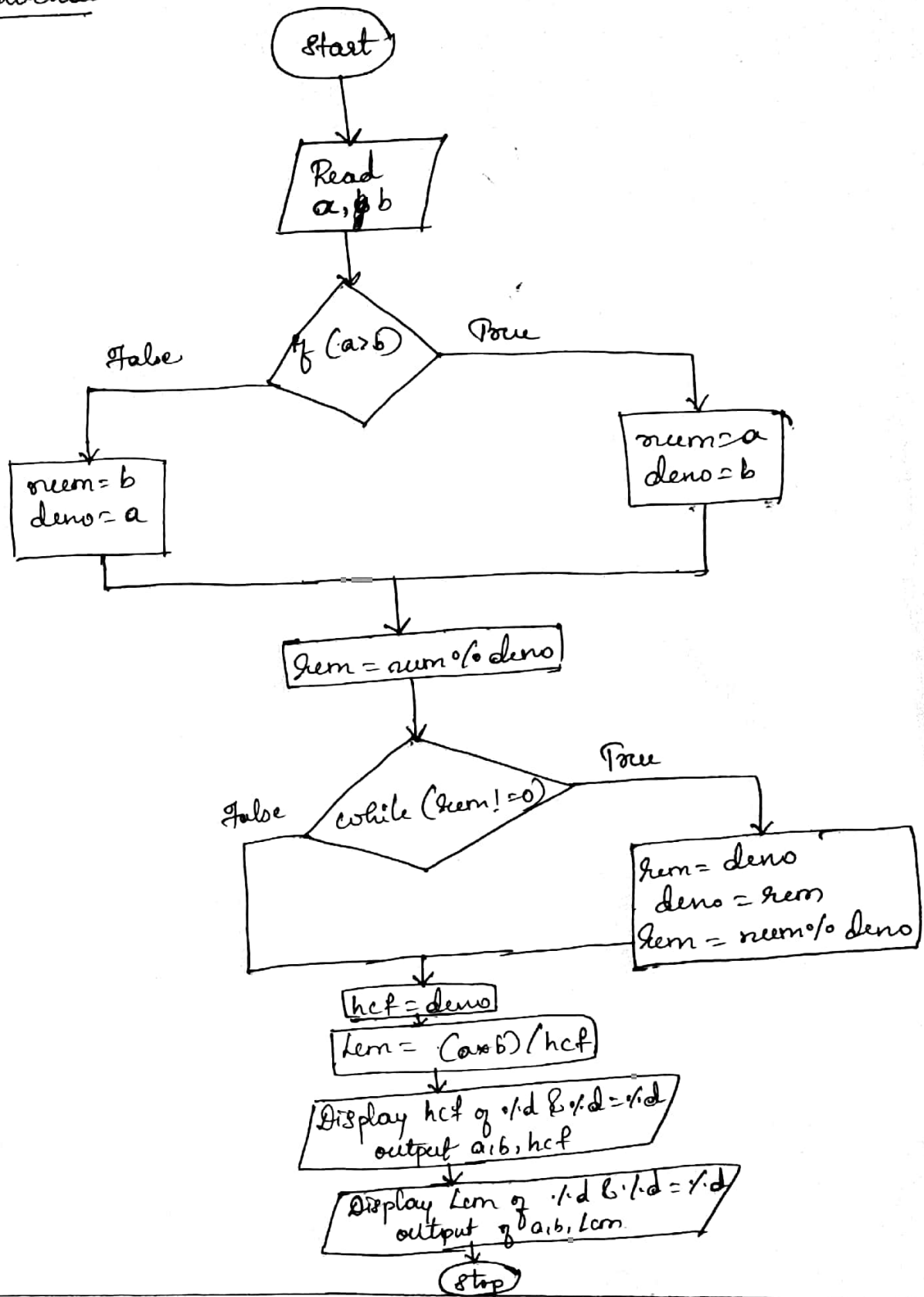
Algorithm

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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 = (a*b)/hcf

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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