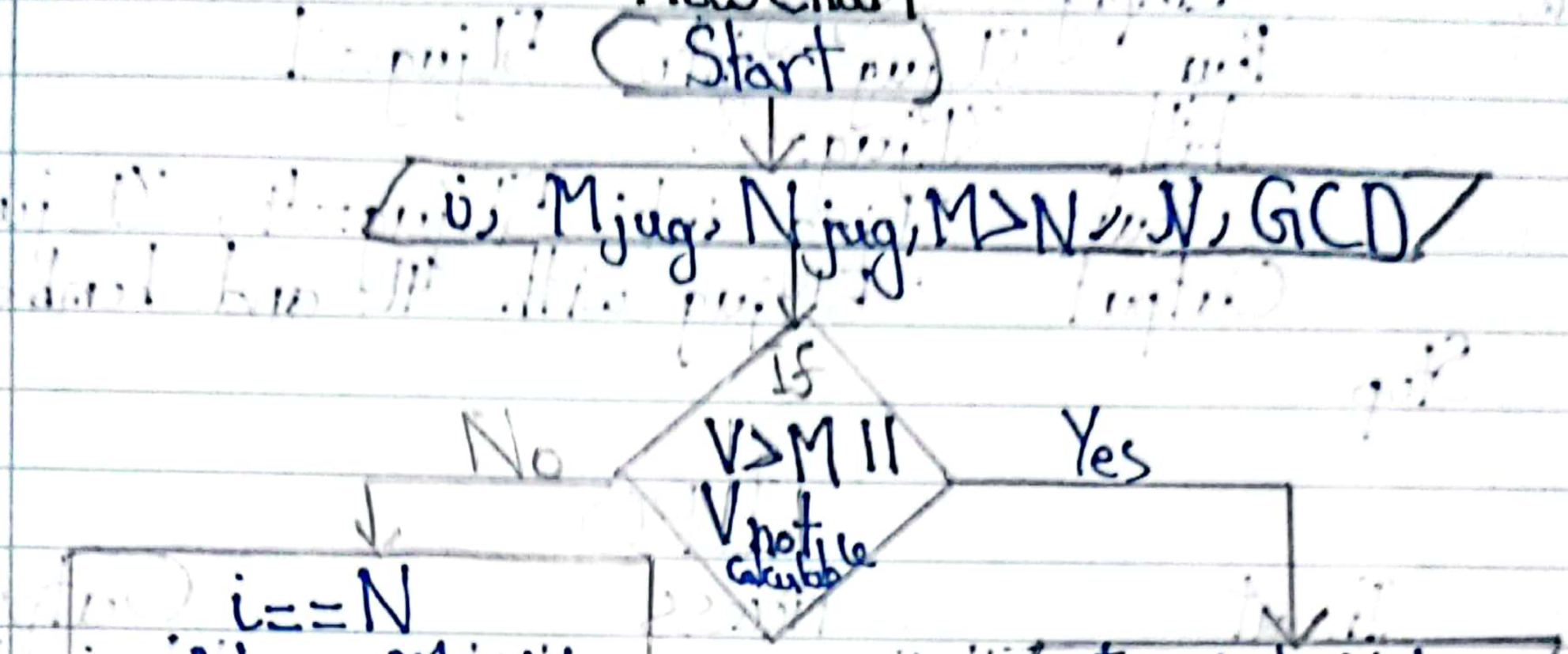
M.masoom khan 24k-0001 Assign:1

Q13

Flowchart



Pseudocode:

Start

Input M jug, and N jug, V, GCD

Process M>N;

If V > M

Output "Invalid volume"

if V % (M || N) != 0

Output "Cannot measure volume"

Else if for i==N

N==M%N

M==i

V = GCD(M,N)

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Date:

Output "V can be measured"

Stop

IPO

Input	Process	Output
M jug N jug Volume	Using euclidean formula we can check if Volume can be checked or not	"Volume can be measured" or "Volume cannot be measured"

Explaination: The program using euclidean formula and equation calculates if the jugs can be filled to a certain volume or not. As the jugs can be filled and emptied according to our their can be more than one way to get the required result