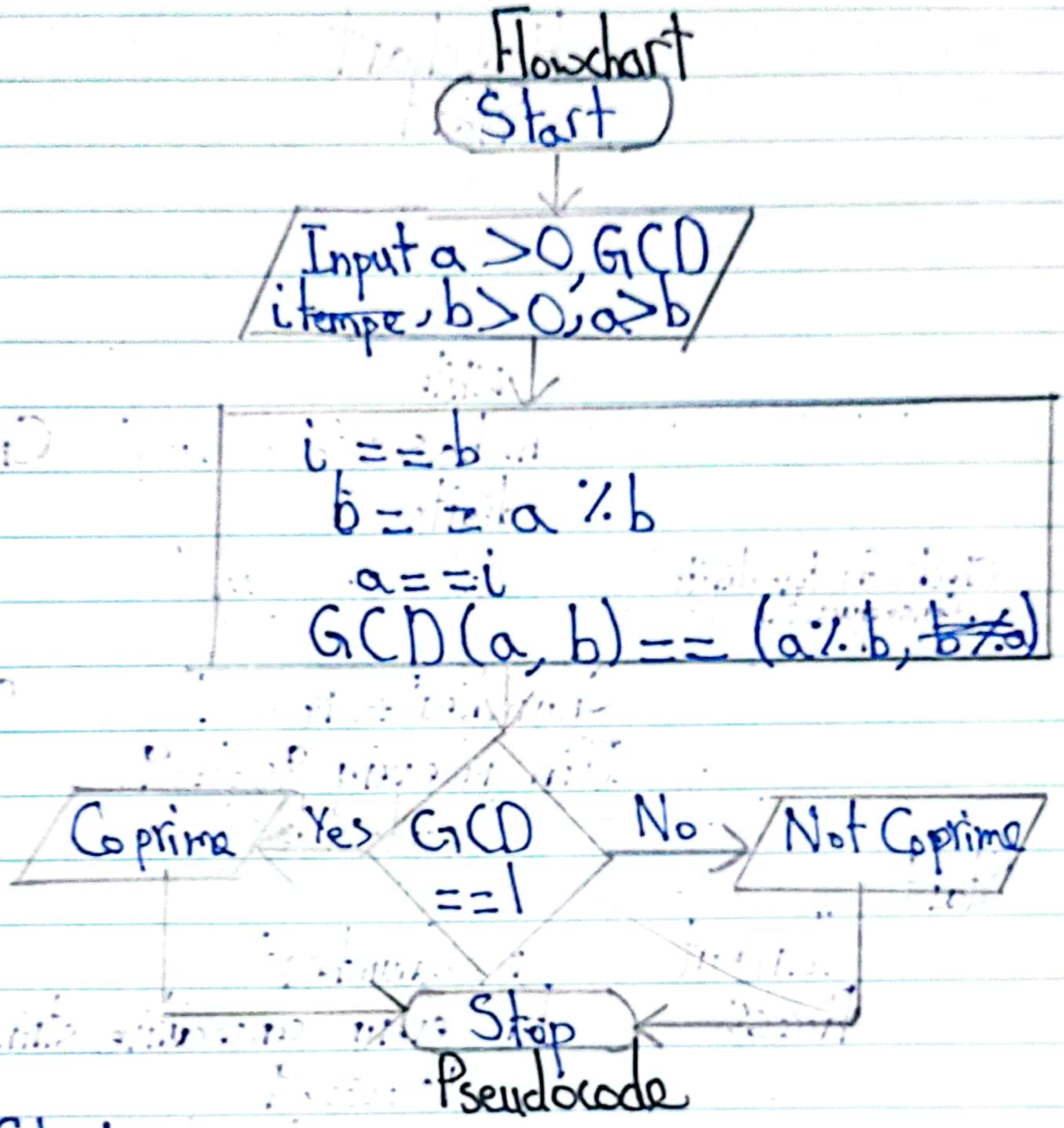
M.masoom khan 24k-0001 PF Assign: 1

Q11

Flowchart



Pseudocode

```
Start:
    Input: a, b
Process   a>b, a>0, b>0
        i==b
        i== a%b
        a==i
    GCD == GCD(a,b)
    If  GCD==1,,
    Output .. "Coprime"
    Else  Output  "Not Coprime"
Stop
```

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IPO

Input	Process	Output
Two whole number a and b	a>b, a>0, b>0 Using euclidean formula calculate GCD If GCD == 1 their are Coprime	"Output" "Co prime" "or" "Not Co-prime"

Explination: The program uses eudidean formula to calculate GCD of whole numbers a and b. This formula works on the basis of replacement of a by b and of b by mod till b=0. the GCD=a If GCD=1 the two number a/b are Coprime otherwise they aren't.