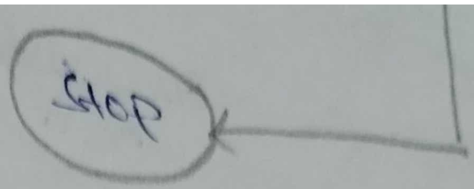


4) Print sum of even numbers till n

Algorithm :

Step1 : Start

Step 2 : Read the input by user as Num

Step 3 : initialize variables integers 'i' and sum

Step 4 : loop starts to check condition

Step 5 : Again check condition that is

if(i%2==0)

Step 6 : If yes print " sum = sum+i; & incremented "

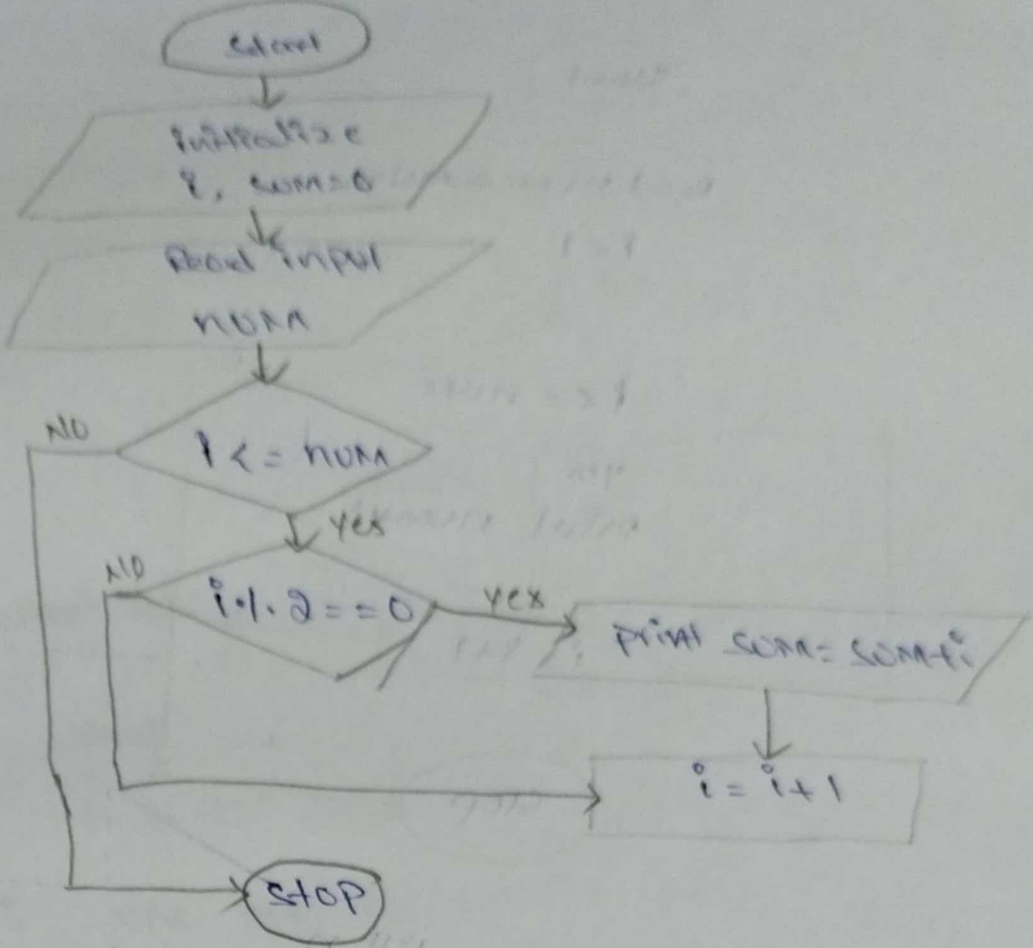
Step 7 : If No print i=i+1;

Step 8 : Repeat 5, 6 until condition fails

Step 9 : print Resutl

Step 10 : stop

Flowchart



ii) Find GCD of two '2' numbers

Algorithm:

Step 1 : Start

Step 2 : Read two inputs by user as first & second

Step 3 : Initialize an integer variable gcd as '1'

Step 4 : For loop starts to check the condition as (i<=first && i<=second) after that update 'i' value

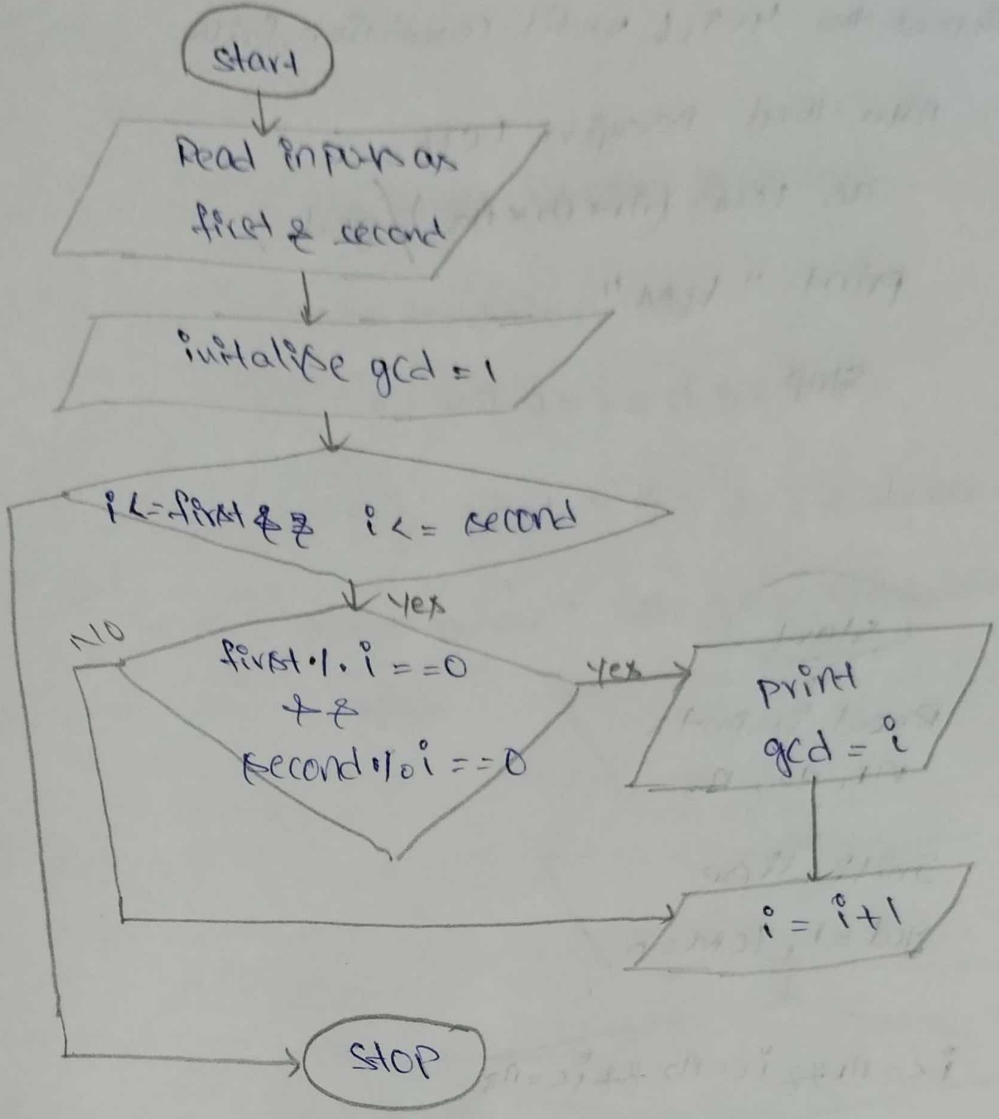
Step 5 : check the condition as
~~if~~ first%i==0 & second%i==0

Step 6 : Then print gcd as 'i'

Step 7 : print Result

Step 8 : stop

flow chart :-



12) print lcm of '3' numbers in Java

Algorithm :

step 1 : start

step 2 : Read the inputs as n1, n2, n3

step 3 : Initialise variables as gcd & lcm as Integers

step 4 : use loop as (i<=n1 && i<=n2 && i<= n3)

step 5 : Then check the condition as

n1%i==0 && n2%i==0 && n3%i==0

step 6 : After that if yes Assign gcd = i & update 'i' value

Step 7 : Else simply update 'i' value

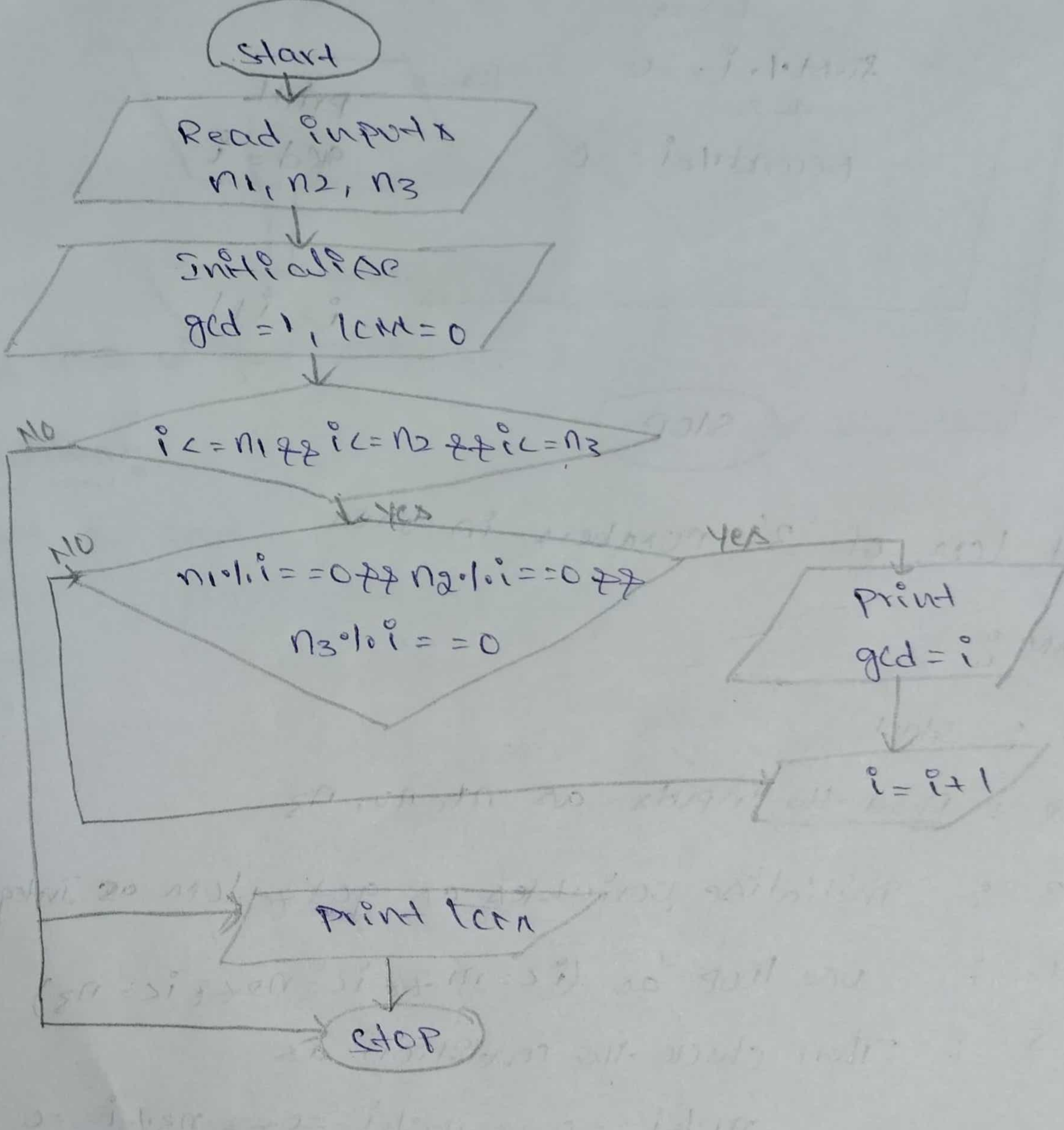
Step 8 : Repeat the 4,5,6 until condition fails

Step 9 : After that Assign LCM
as $lcm = (n_1 * n_2 * n_3)/gcd$;

Step 10 : print "lcm"

Step 11 : Stop

Flow chart:

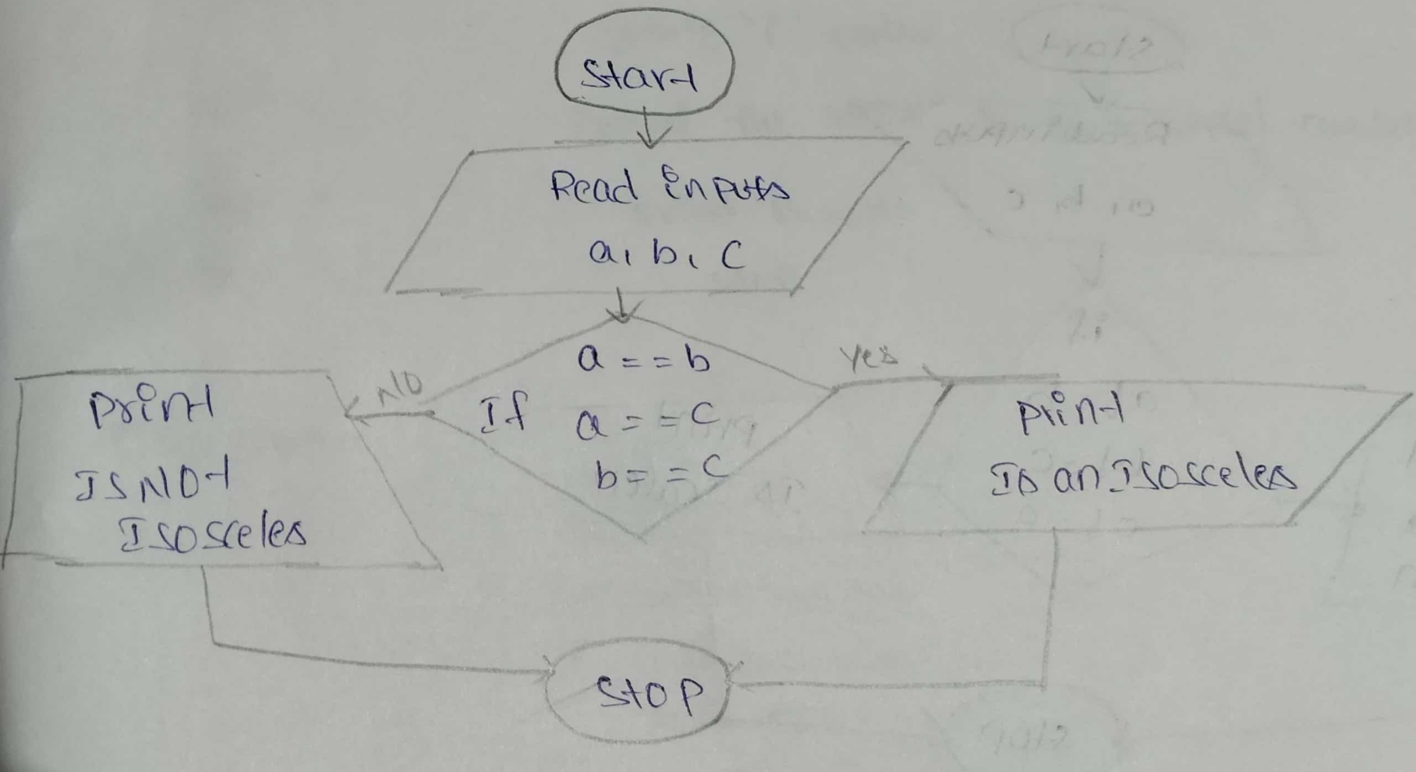

Start
Read inputs n1, n2, n3
Initialise gcd = 1, lcm = 0
i <= n1 && i <= n2 && i <= n3
NO
Yes
n1 % i == 0 && n2 % i == 0 && n3 % i == 0
NO
Yes
print gcd = i
i = i + 1
print lcm
STOP

given triangle is Isosceles or not

Algorithm :

```
Step 1 : Start
Step 2 : Read the inputs by user as a, b, c
Step 3 : Check the condition as
             if ( a = = b || a = = c || b = = c )
Step 4 : If yes print " Is a Isosceles triangle"
Step 5 : Else print " Not Isosceles triangle "
Step 6 : Stop
```

flowchart :

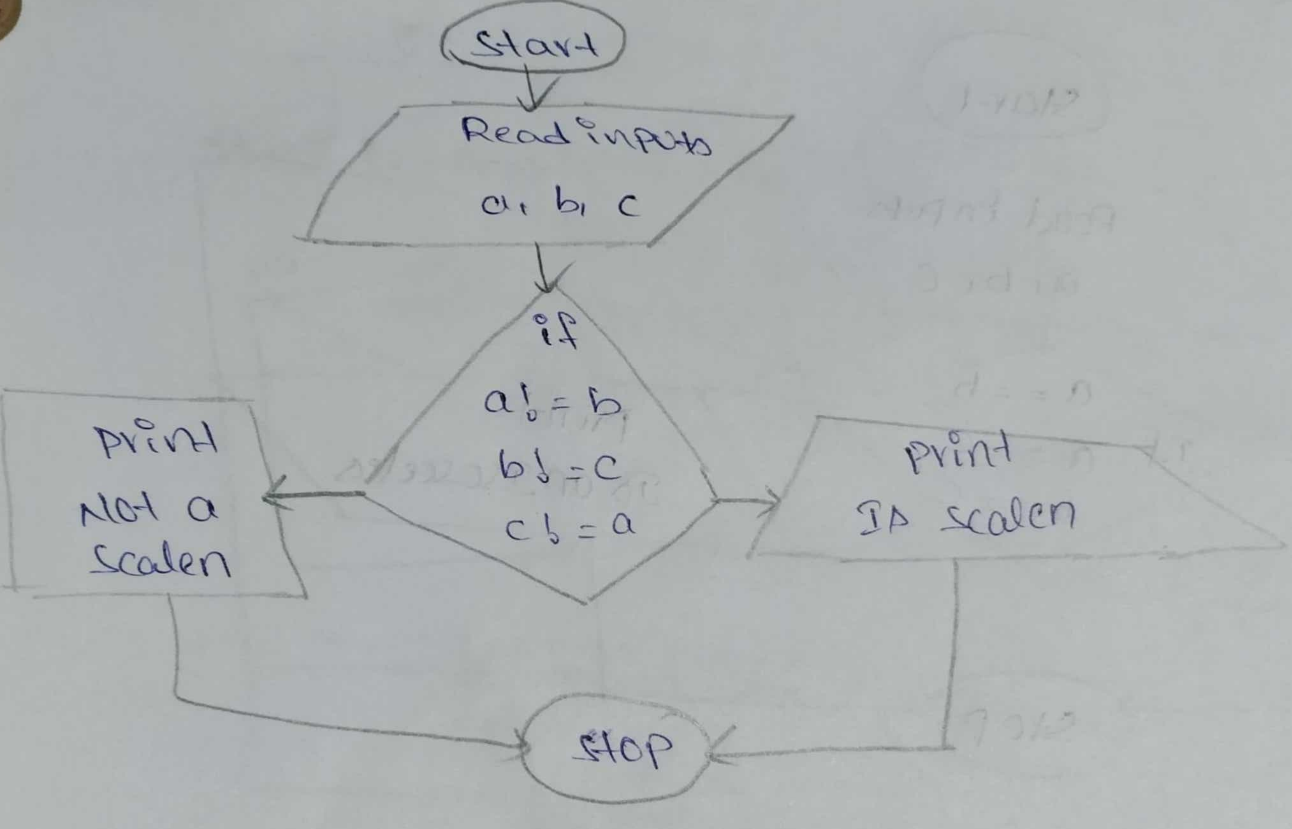


14) check wether a triangle is scalen or not

Algorithm :-

```
Step 1 : Start
Step 2 :  Read the inputs a,b,c
Step 3 :  check the condition as
          (a!=b && a!=c && b!=c)
Step 4 :  If yes print " Is a scalen "
Step 5 :  else print " Is not scalen"
Step 6 :  stop
```

Flow chart:

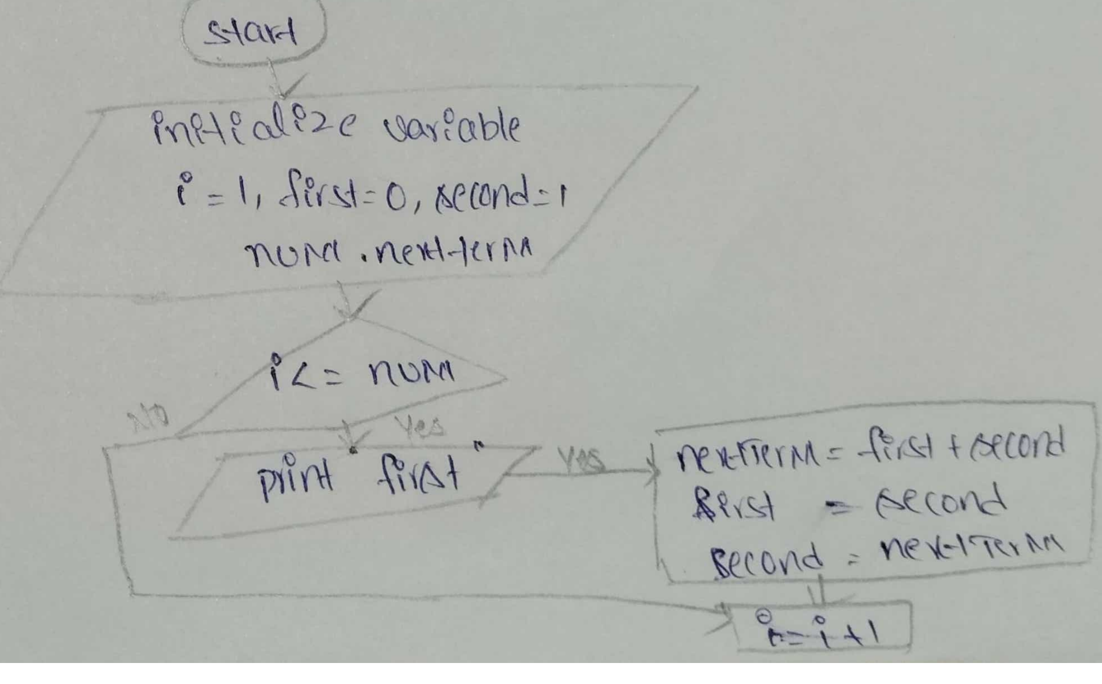


15) print Fibonacci series

Algorithm :

```
step 1 : start
step 2 : Initialise integer variables as
            i=1, first=0, second=1 and 'num'
step 3 : check the condition using while loop as
            while (i<=n)
            Print " first"
step 4 : Declare a variable that is integer
            nextterm = first + second; & update values as
            first = second;
            second = next;
step 5 : update 'i' value
step 6 : Repeat the steps 3, 4.5 until condition fails
step 7 : print Results
step 8 : stop
```

flow chart :


start
Initialize variable
i = 1, first=0, second=1
num, next term
i<= num
No
Yes
print " first "
Yes
nextTerm = first + second
first = second
second = nextTerm
i = i+1