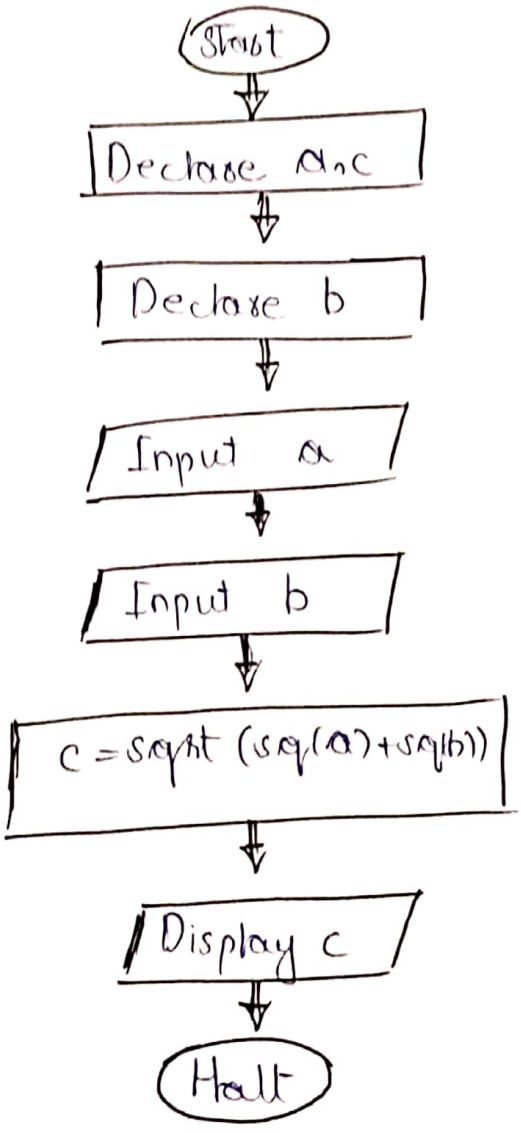
Name Wareesha Ashraf 2F2

Roll Number 22F-3441.

Pseudocode 1:-

1. Declare a, c
2. Declare b.
3. Input a.
4. Input b.
5. c = Sqrt(sq(a) + sq(b))
6. Display c.
7. Halt.

:. #include <cmath> Library is used for sqrt( ) function.



PseudoCode 2:-

1. Declare A.S.M.D.
2. Declare int 1, int 2. . Input int 1, int 2.
3. Declare letter, choice
4. Print "Enter a letter"
5. Input letter
6. If (letter == A || letter == S || letter == M || letter == D)

6.1 Input choice

7. Else

7.1 Print "An inappropriate input has taken"

8. If (choice == 1)

8.1 A = int 1 + int 2

Else 8.2 display "A"

9. If (choice == 2)

9.1 . If int 2 > int 1

9.1.1 S = int 2 - int 1

9.2 Else if int 1 > int 2

9.2.1 S = int 1 - int 2

Else 9.3 Display "S"

10. If (choice == 3)

10.1 M = int 1 * int 2

10.2 Display "M"

Else

11. If (choice == 4)

11.1. if int 2 > int 1

11.1.1 D = int 2 / int 1

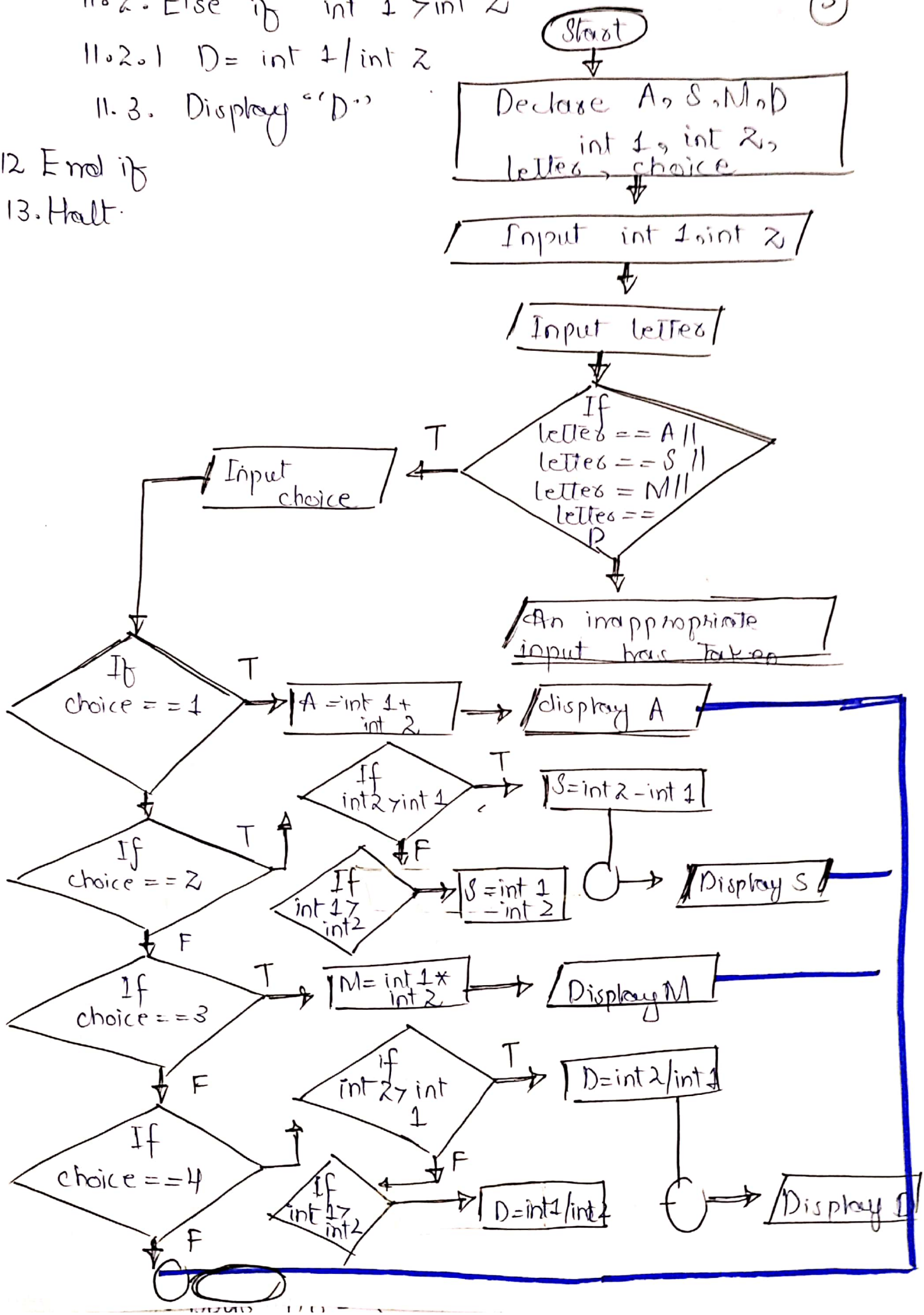
11.2. Else if int 1 > int 2

11.2.1 D = int 1 / int 2

11.3. Display "D"

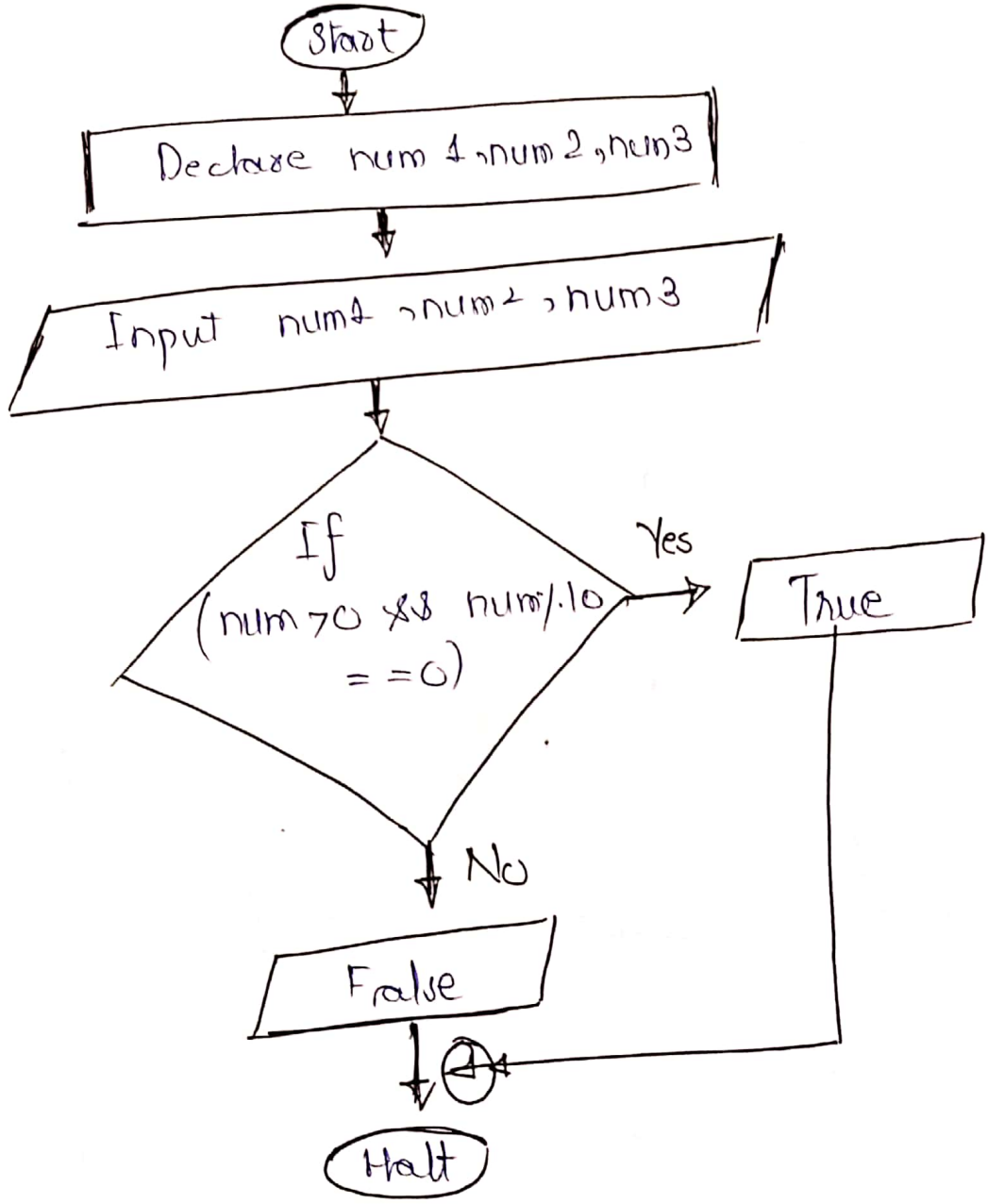
12 End if

13. Halt.



PseudoCode 3:-

1. Declare num1, num2, num3.
2. Input num1, num2, num3.
3. If (num>0 && num%10 ==0)
   3.1 Display "True"
4. Else
   4.1 Display "False"
5. Halt.



(4) Pseudocode 4:-

(1) declare grades , average
(2) count = 0 , sum = 0
(3) While (count < 5)
    3.1. Input grades
    3.2. count = count + 1
    3.3 sum = sum + grades.
(4) average = sum / 5
(5) Display average
(6) Halt.

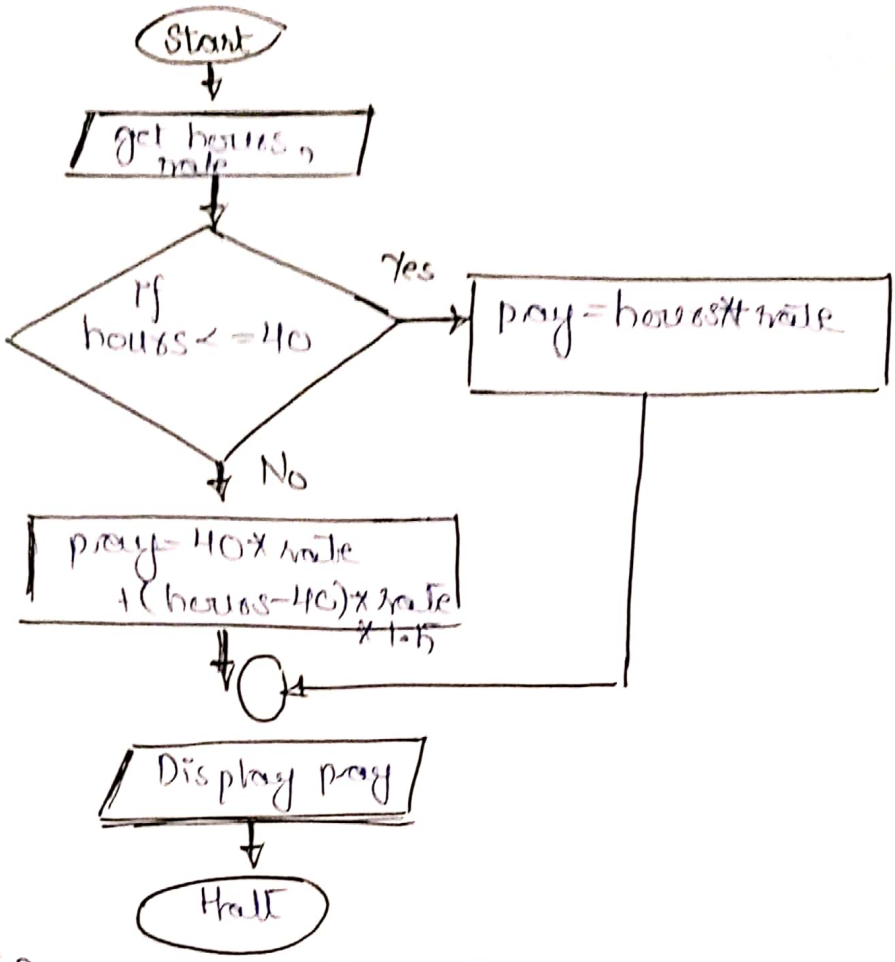
(b) (1) declare M1 , M2 , M3 , M4. , Sum.
(2) declare average , grade
(3) Input M1 , M2 , M3 , M4.
(4) Sum = M1 + M2 + M3 + M4
(5) average = Sum / 400
(6) If (average >= 50)
    6.1. Display "Passing"
(7) Else
    7.1 Display "Failing"
(8) Halt.

(C) 1. Declare children = 28.
2. Declare girls no , boys no
3. girls no = (28 * 3) / 4
4. boys no = (28 * 1) / 4
5. Display girls no (6) Display boys no. (7) Halt.

Pseudocode 5:-

num1, num2, num3.

(5)



(6)

(1) Declare num 1, num 2.

(2) Input num 1, num 2.

(3) Declare count = 1

(4) Declare result = 0

(5) While (count <= num 2)

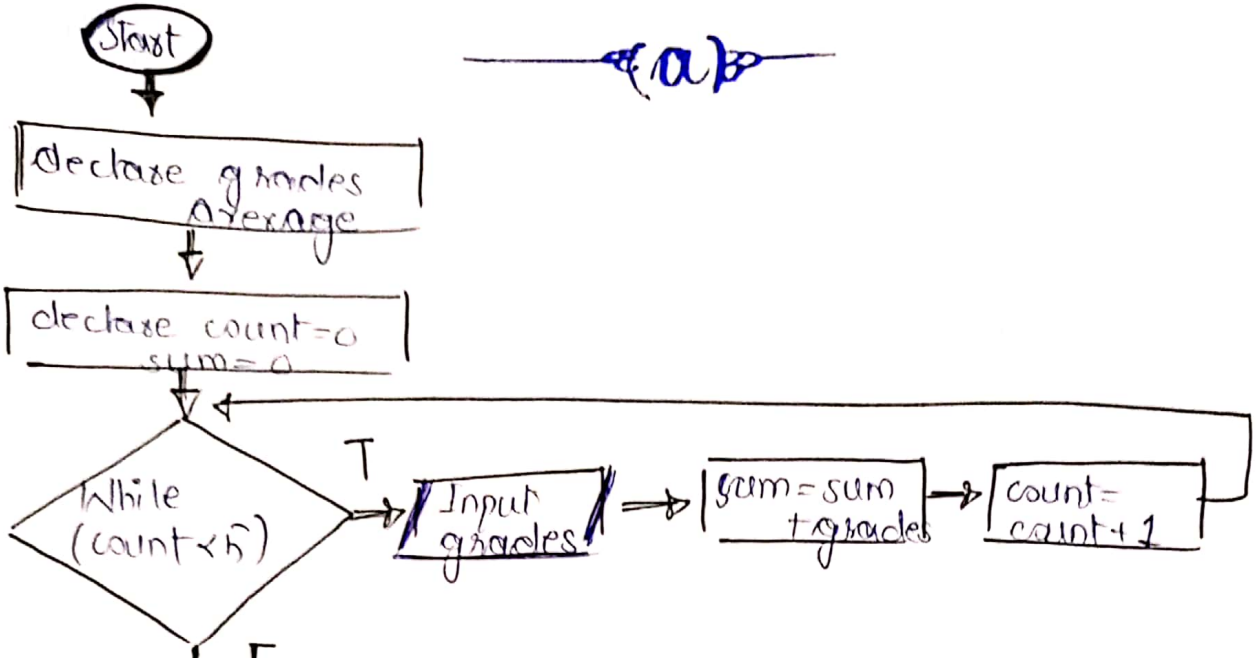
5.1 result = result + num1

5.2 count = count + 1

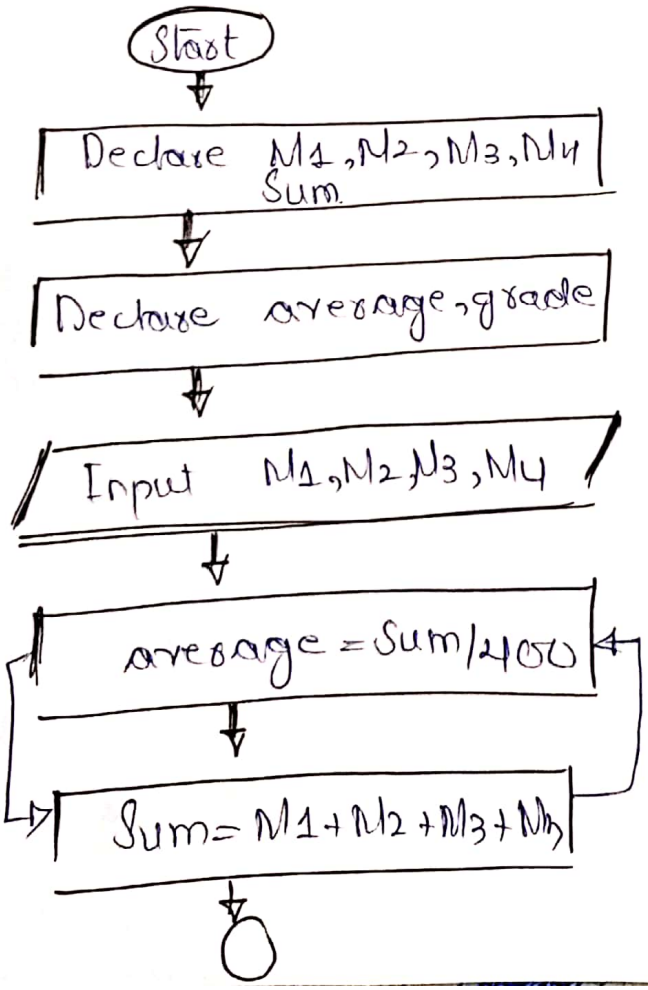
(6) Display "result"

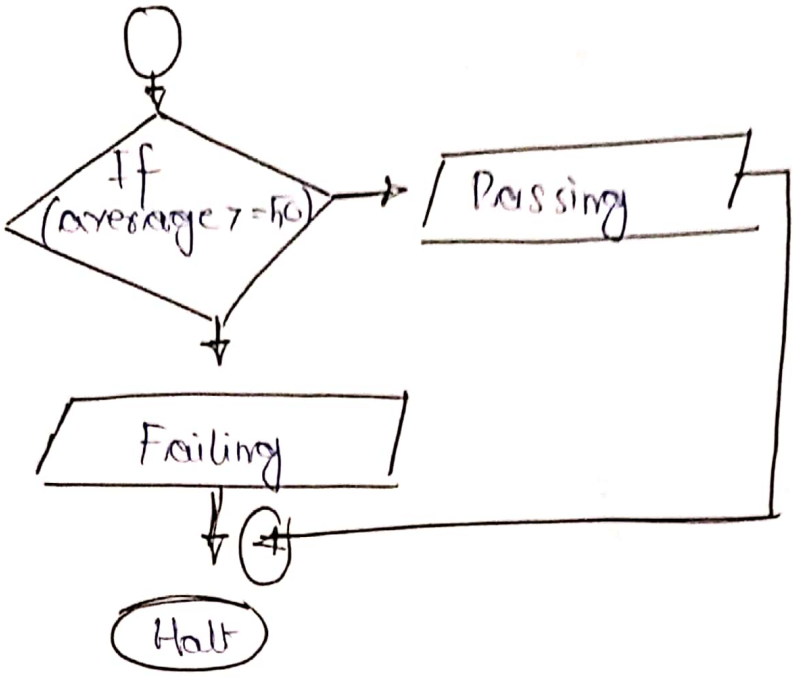
(7) Halt.

(a)

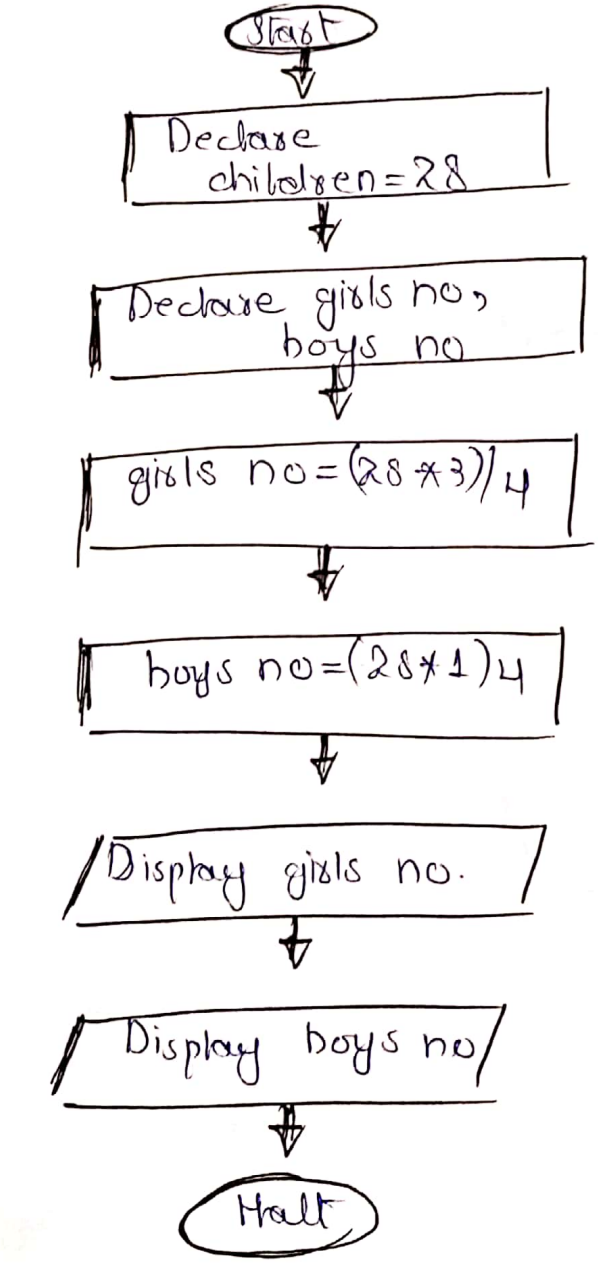


(b)

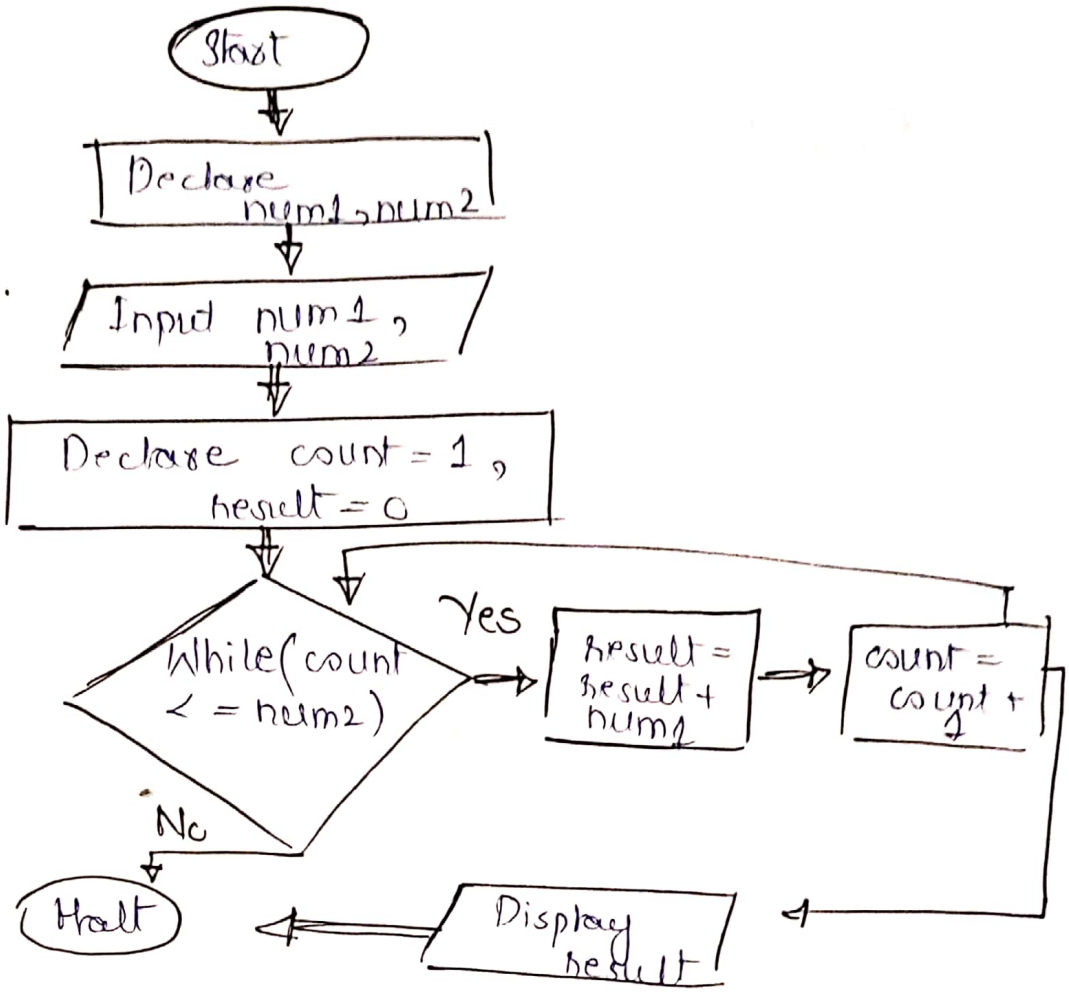




(C)



Flow Chart 6:-

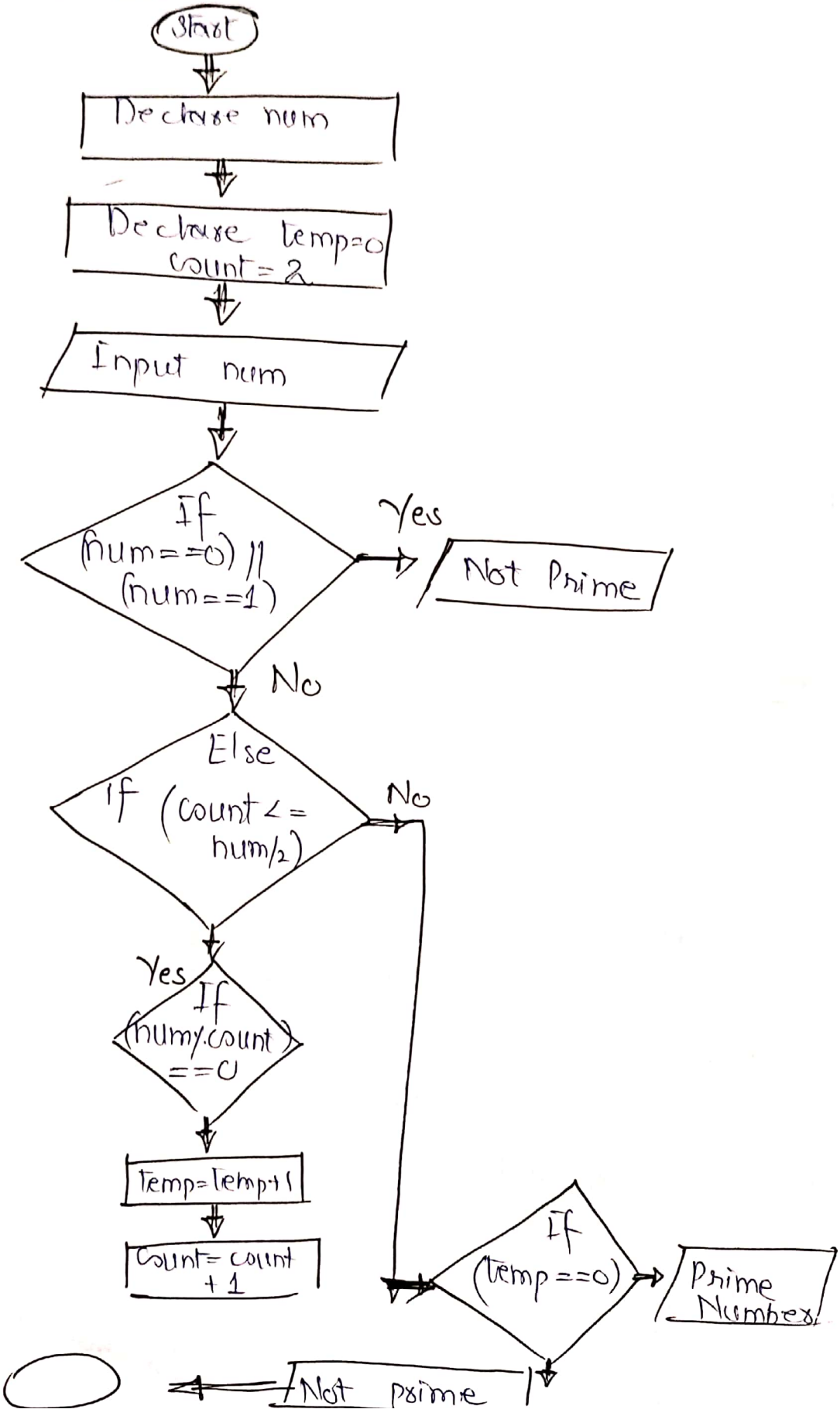


(1) (1) Start
(2) Declare num
(3) Declare temp=0, count=2
(4) Input num.
(5) If(num == 0 || num == 1)
5.1. Print "Not Prime"
(6) Else if (count <= num/2)
6.1 If (num%. count == 0)
6.1.1 temp = temp+1
6.1.2 count = count + 1
(7) If (temp == 0)
7.1 Print "Prime Numbes"

8. Else

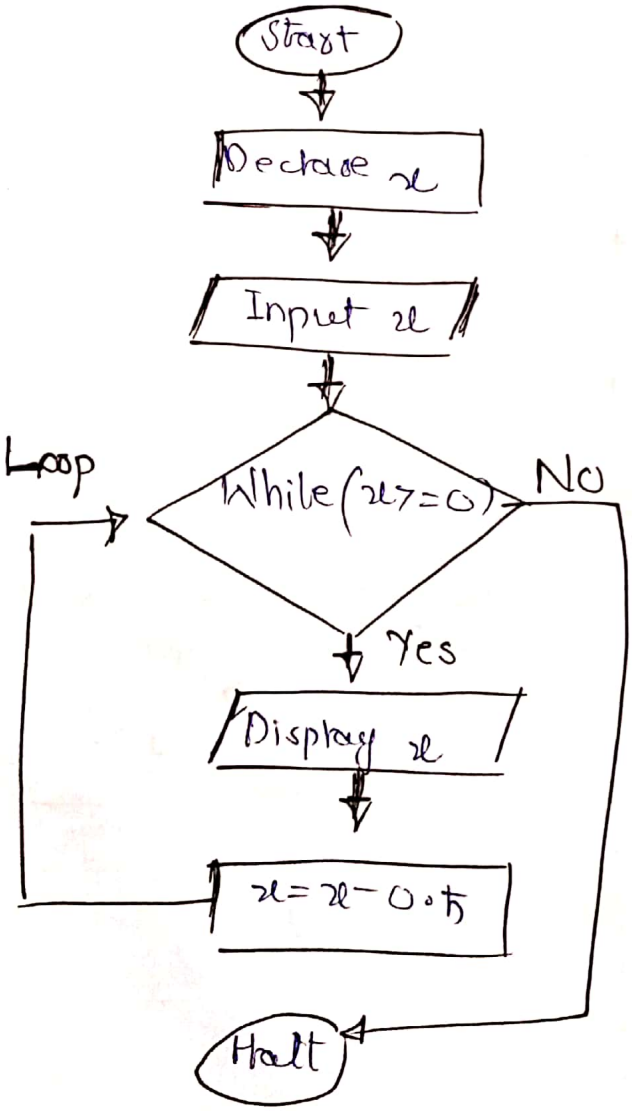
8.1 Print "Not Prime"

FlowChart 11:-



Pseudocode 8:-

1. Start
2. Declare x
3. Input x.
4. While ($x \neq 0$)
   - 4.1 Display x
   - 4.2 $x = x - 0.5$
6. Halt.



Pseudocode 9:-

1. Start
2. Declare integer, odd
3. Input integer
3. While (integer <= 25)

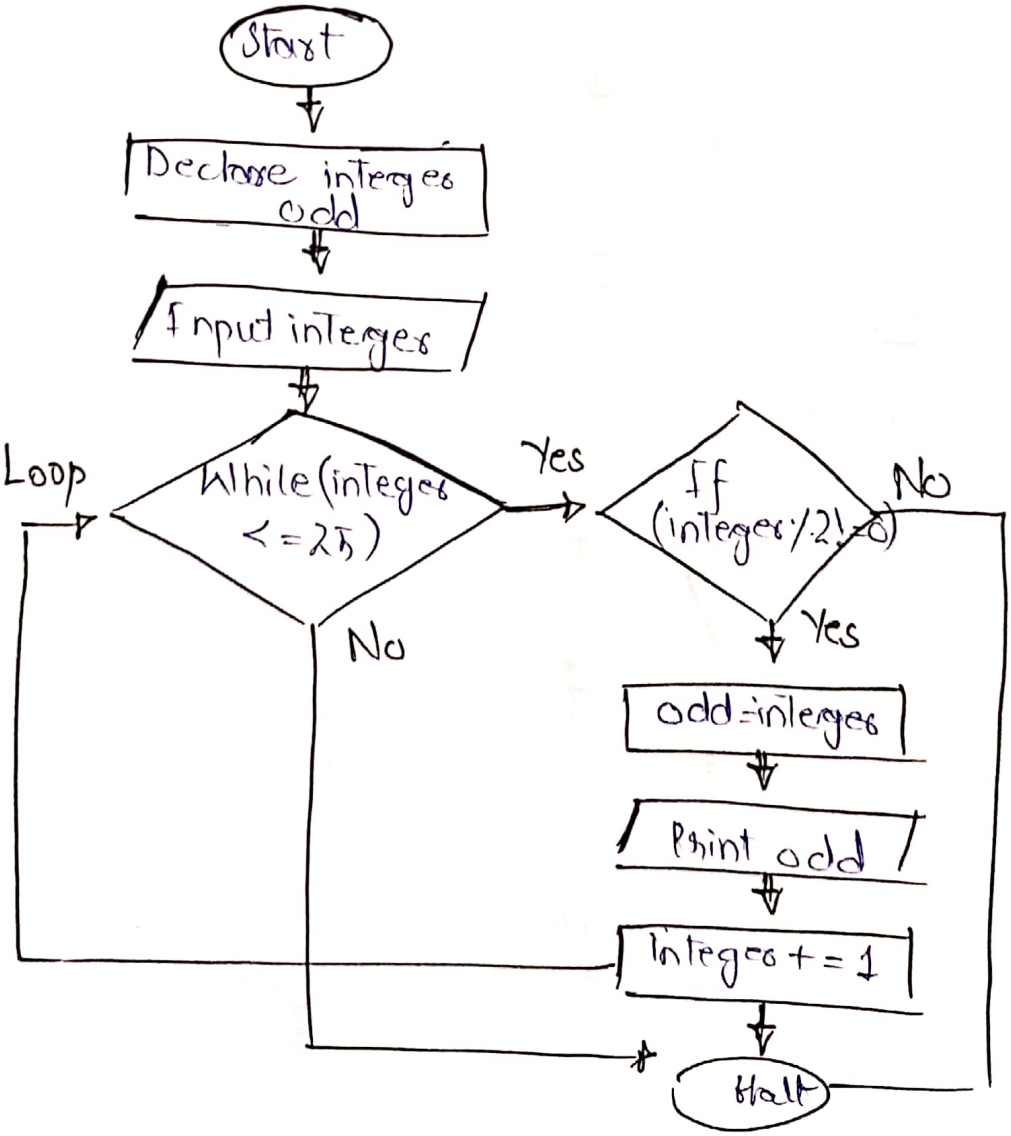
   3.1 If (integer % 2 != 0)

   3.2 odd = integer

   3.3. Print odd

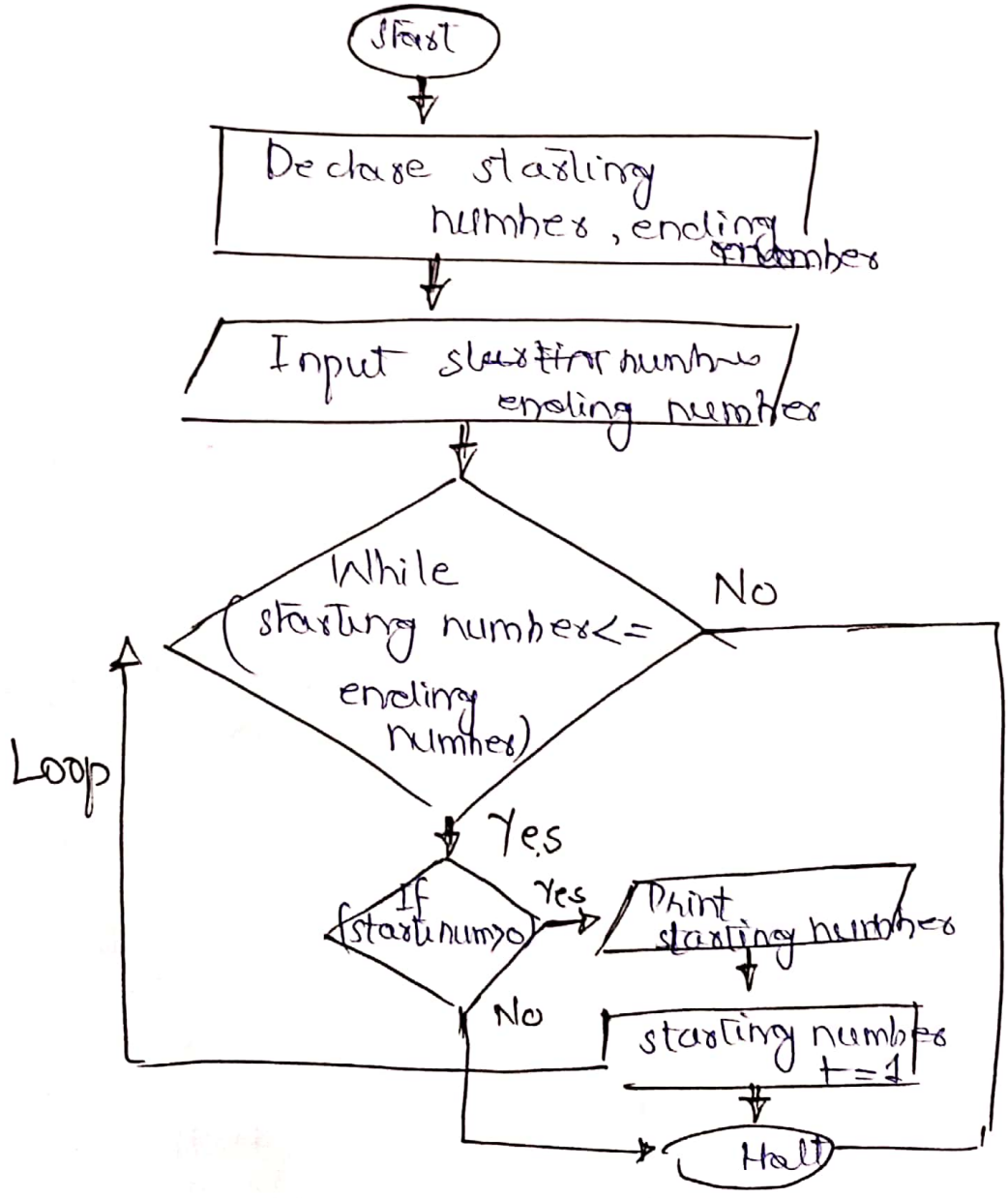
   3.4. integer = integer + 1

4. Halt.



Pseudocode 10:-

1. Start
2. Declare starting number
3. Declare ending number.
   Input starting number, ending number
4. While (starting number <= ending number)
   - 4.1 If (starting number > 0)
     - 4.1.1 Print starting number
     - 4.1.2. starting number = starting number + 1
5. Halt.



Pseudocode 7:-

(1) Declare a, b, max, gcd

(2) Input a, b.

(3) While (a != b)

5.1 If (a % max == 0 && b % max == 0)

5.1 gcd = (a - b, b)

(3) If (a > b)

3.1 max = a

(4) Else if (b > a)

4.1 max = b

(6) Display gcd

(7) Halt