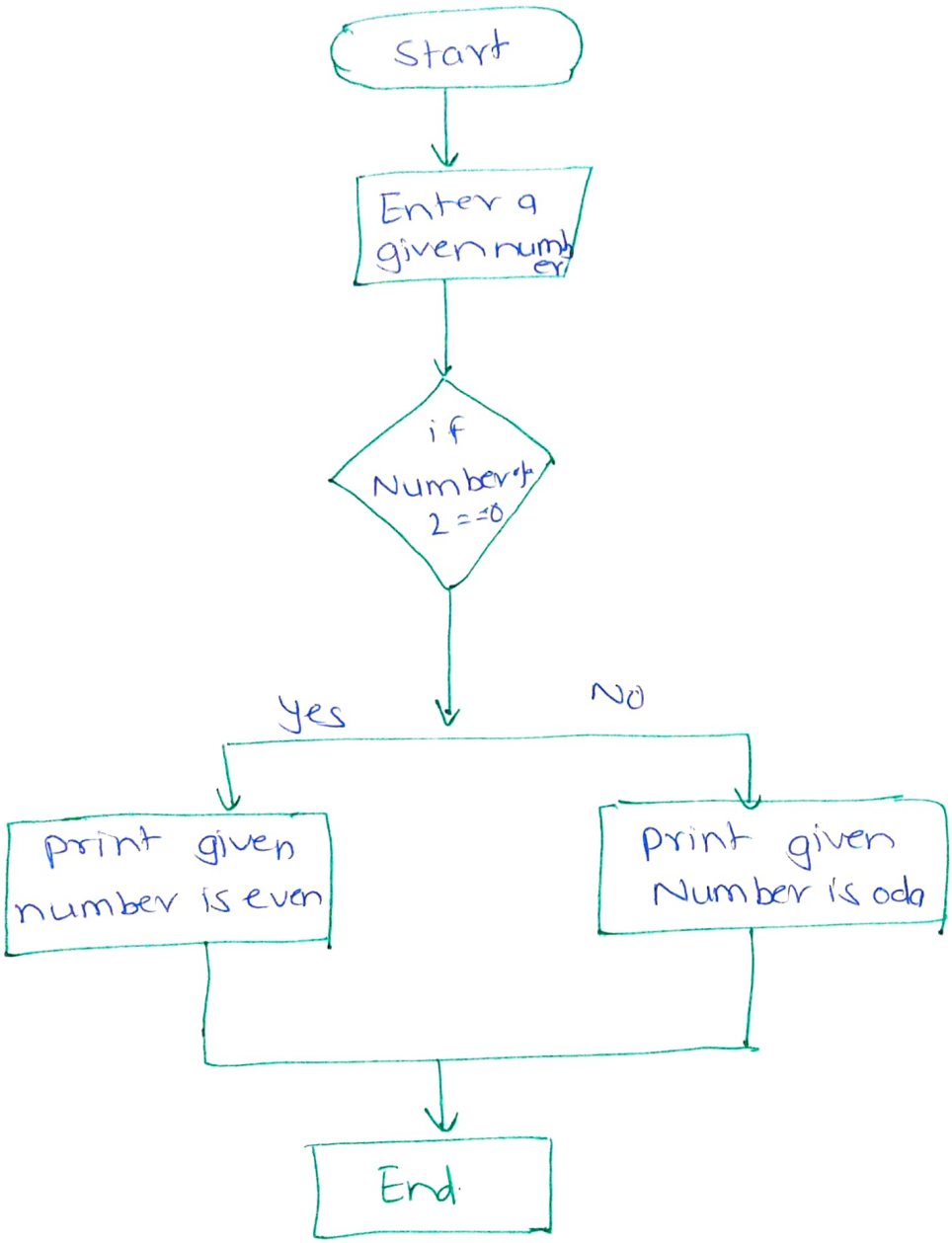
Assignment 1

Flowchart

1)

Check the given number is Even or ODD

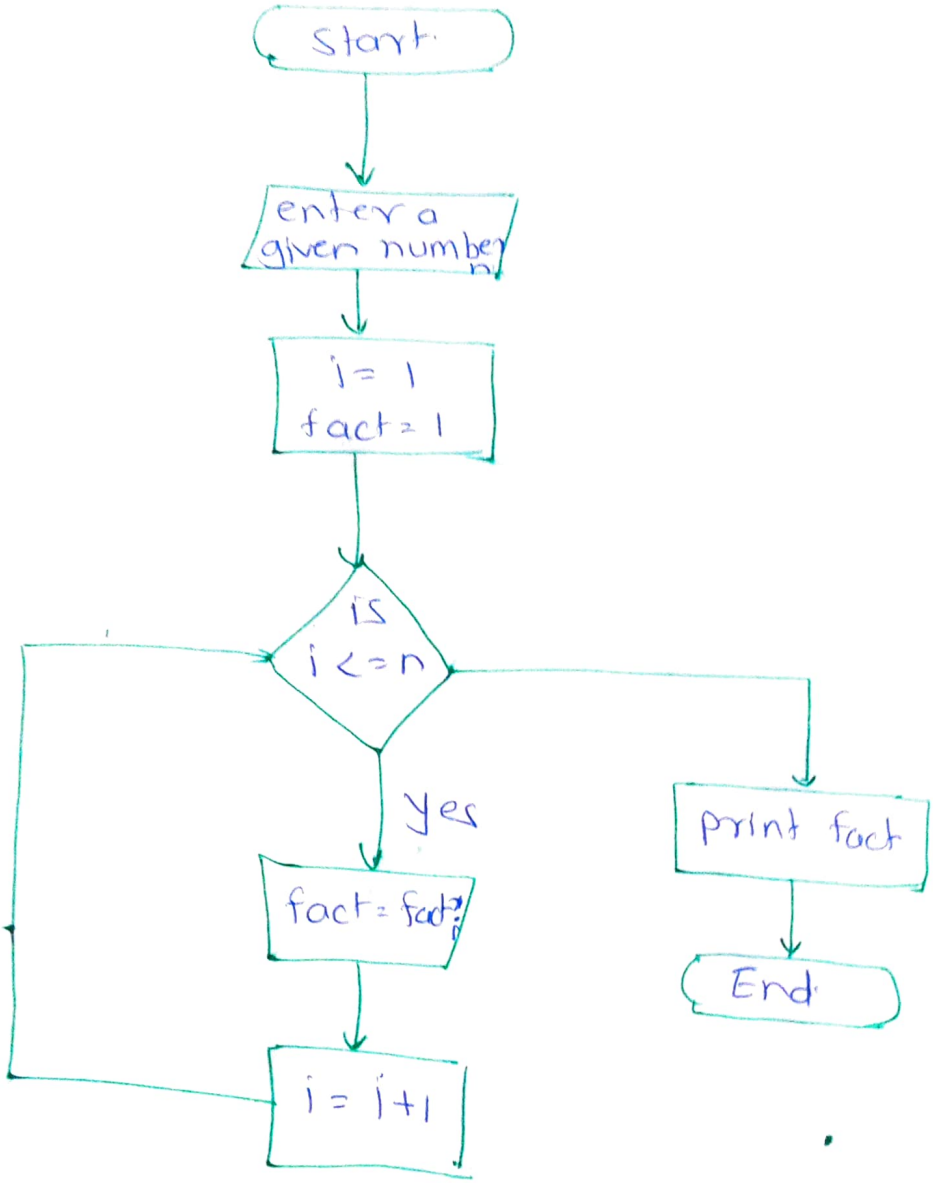


Algo - 1) Enter the number

2) If the number in the multiple of 2+4+6+8+ then its a even number

3) if the number in the series of 1+3+5+7+9 then its a odd number

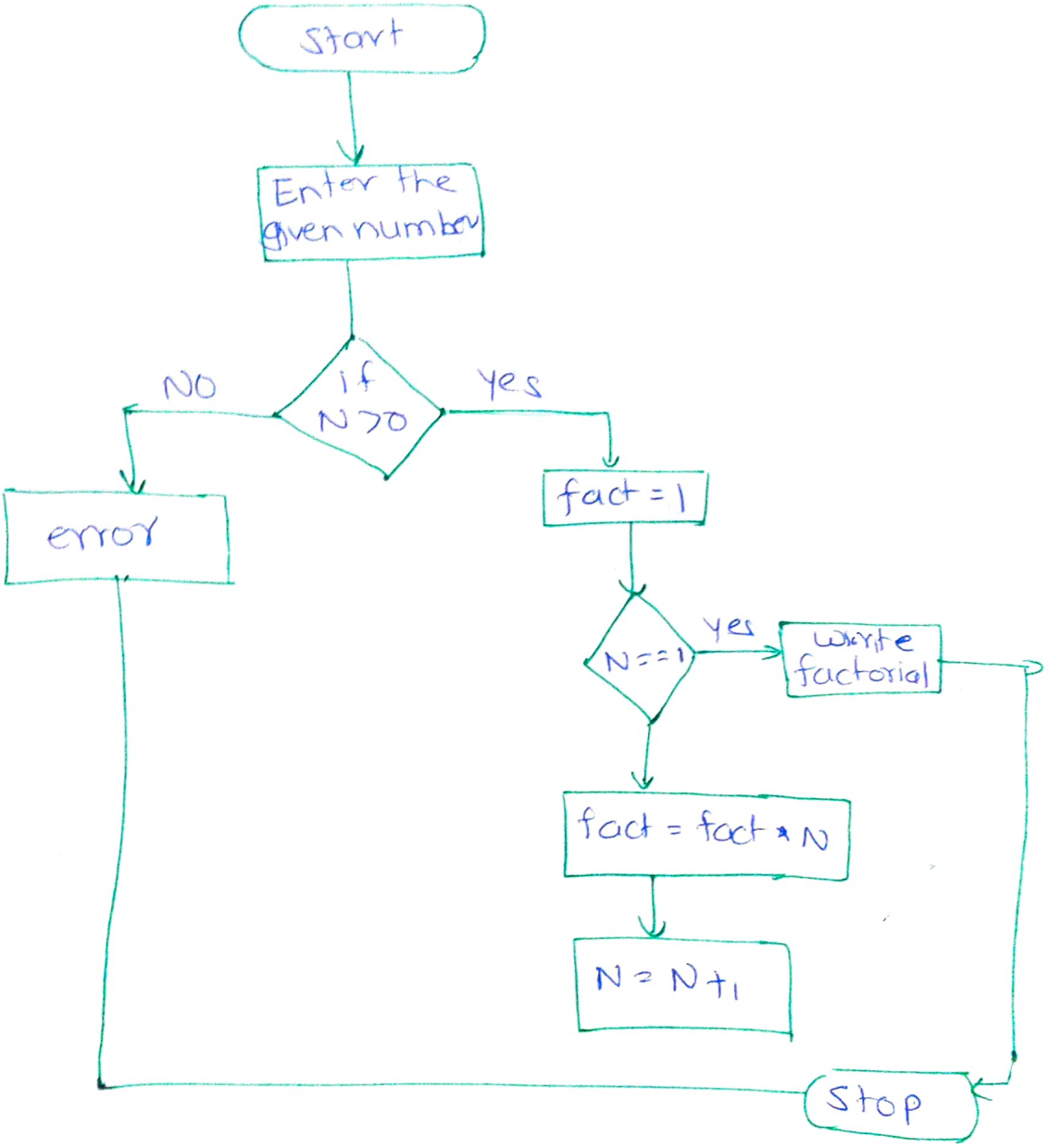
2) write flow chart of find the factorial of a number given number



Algo-

1) Enter the number from 1 to 5
3) Take a multiplication of this numbers
3) 1 * 2 * 3 * 4 * 5 = 120
4) The factorial of this number are 120

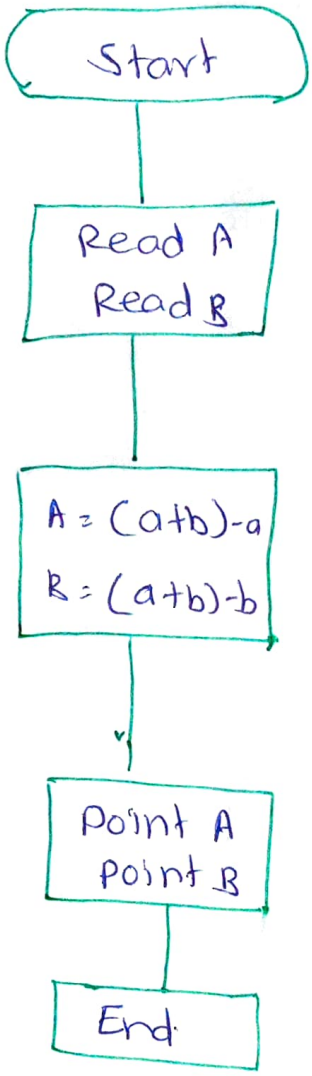
3) To Find factorial of a given number using recurtion.



Algo -

1) Enter the positive Integer n.
2) if the n is equal to 1 i.e (n==1) return 1
3) else return n * factorial (n-1)

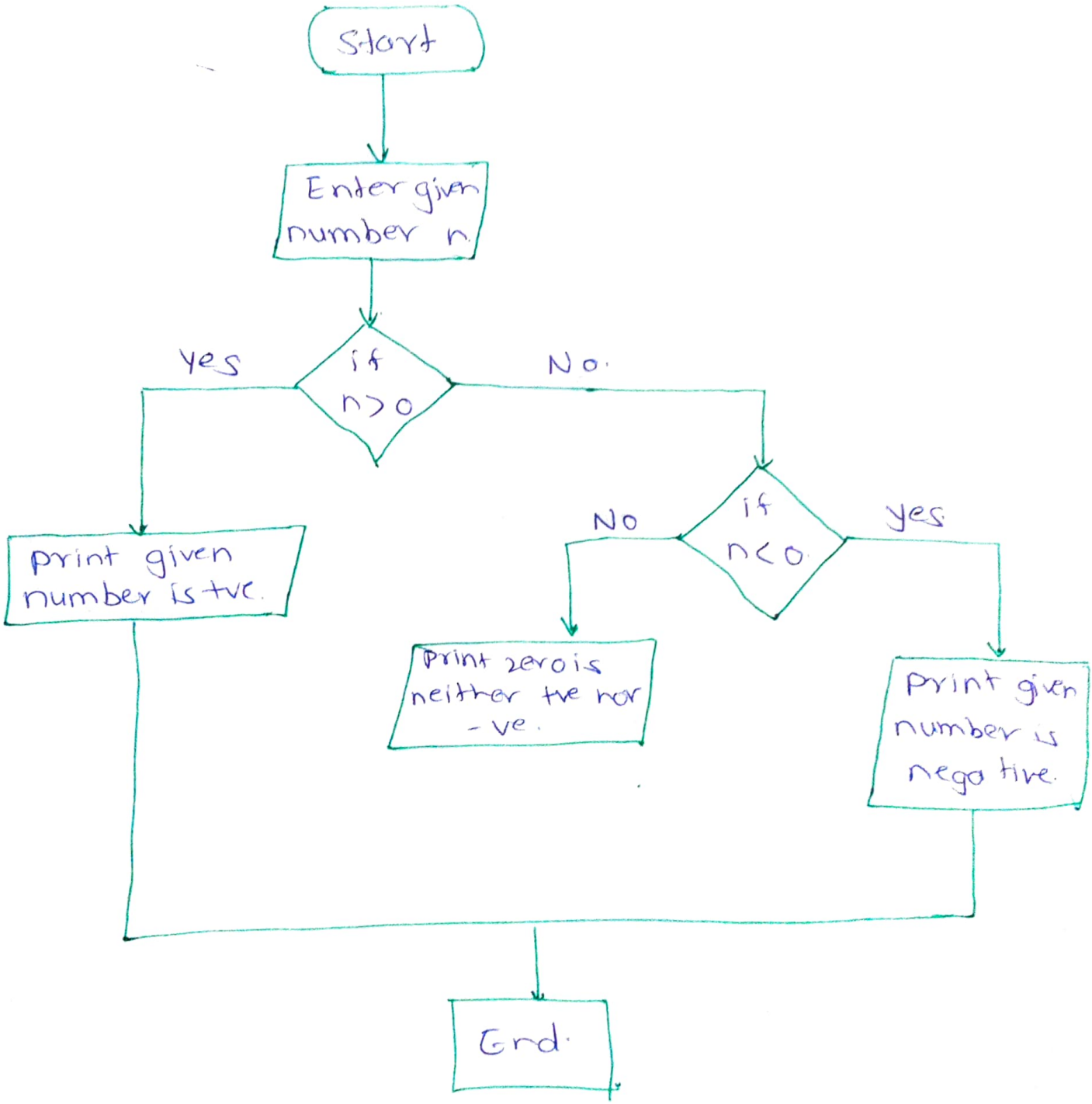
4] swap two number without using third variable approach.



Algo-

1) Declare two positive numbers
2) Read two numbers from keyboard
3) First number a = 18 b = 12 (second no)
4) a = (a+b) - a ; & b = (a+b) - b
5) First number a = 12 second number b = 18

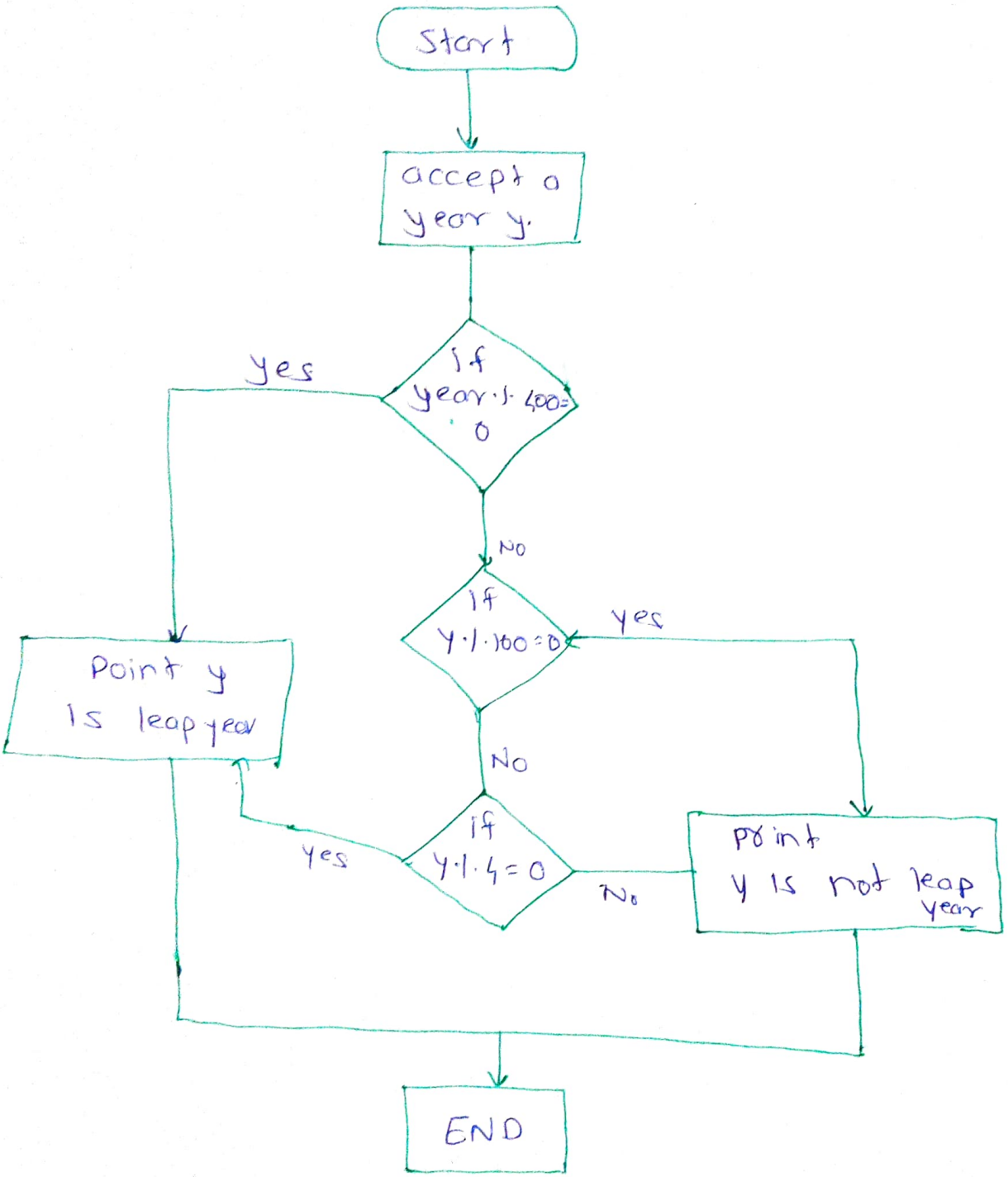
5] Flow chart of given number is +ve or -ve.



Algo:

1) Enter the number
2) If the number is less than 0 it is negative number
3) if the number is greater than 0 then it is positive number.

6] Flow chart to check given year is leap or not



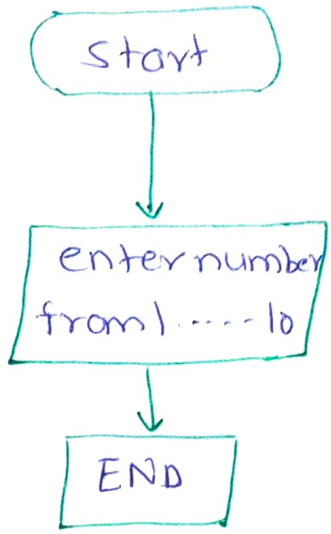
Algo- 1) enter the 4 digit number which indicate year

2) Divide number by 400.

3) If the remainder is getting 0 then it is leap year.

4) If the remainder is not getting 0 then it is not leap year.

7) To Print 1 to 10 without using loop



8). ~~To print the digits of a given number~~

Algo -

step 1) enter the class name

2) public static void (String [] args [])

3) System. out. println (1)

4) System. out. println (2)

System. out. println (3)

System. out. println (4)

System. out. println (5)

System. out. println (6)

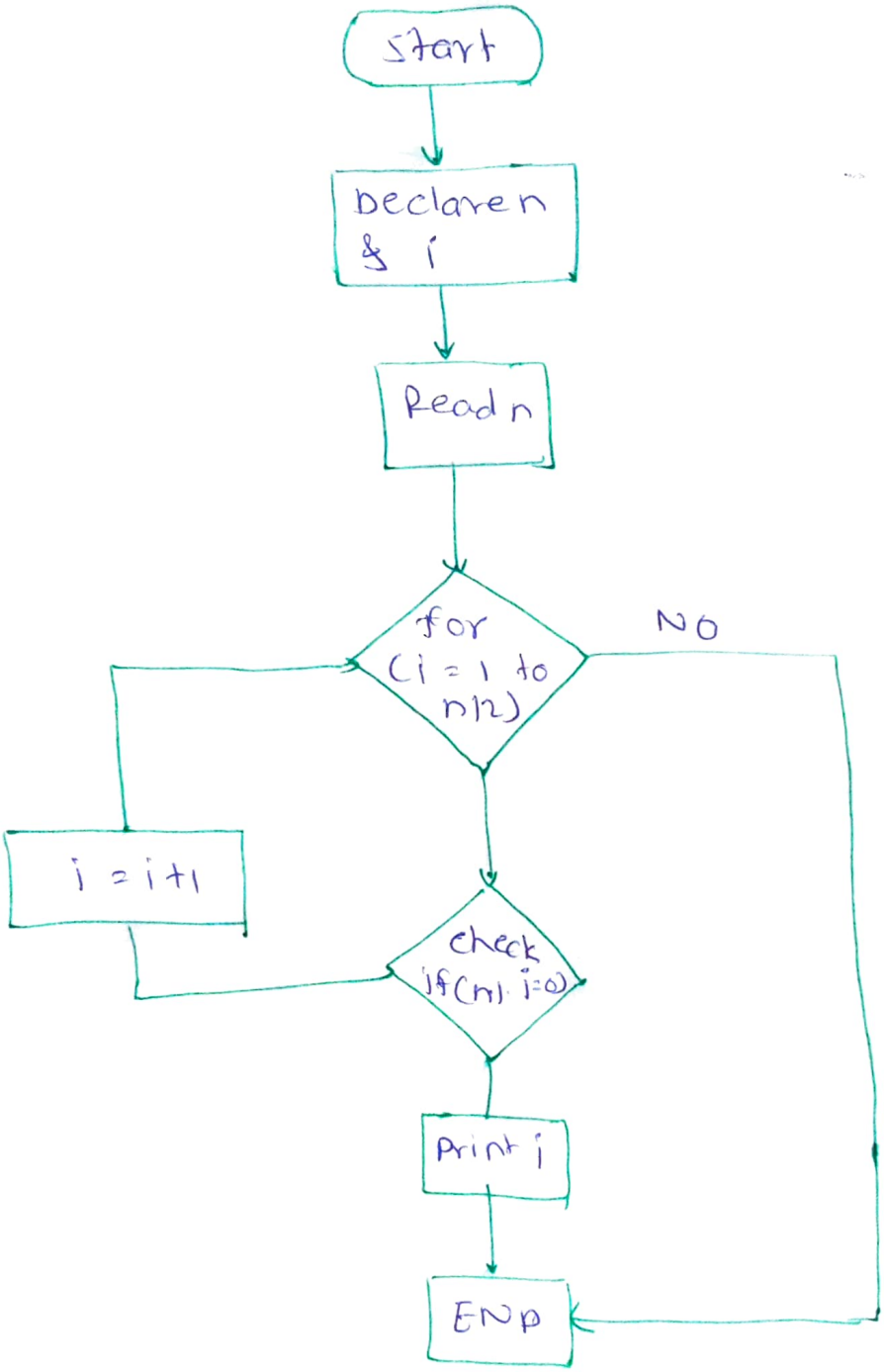
System. out. println (7)

System. out. println (8)

System. out. println (9)

System. out. println (10)

9) write a java program Print of factor of given number.



Algo -

i) Enter the number

ii) for (i = 1 to $\frac{n}{2}$)

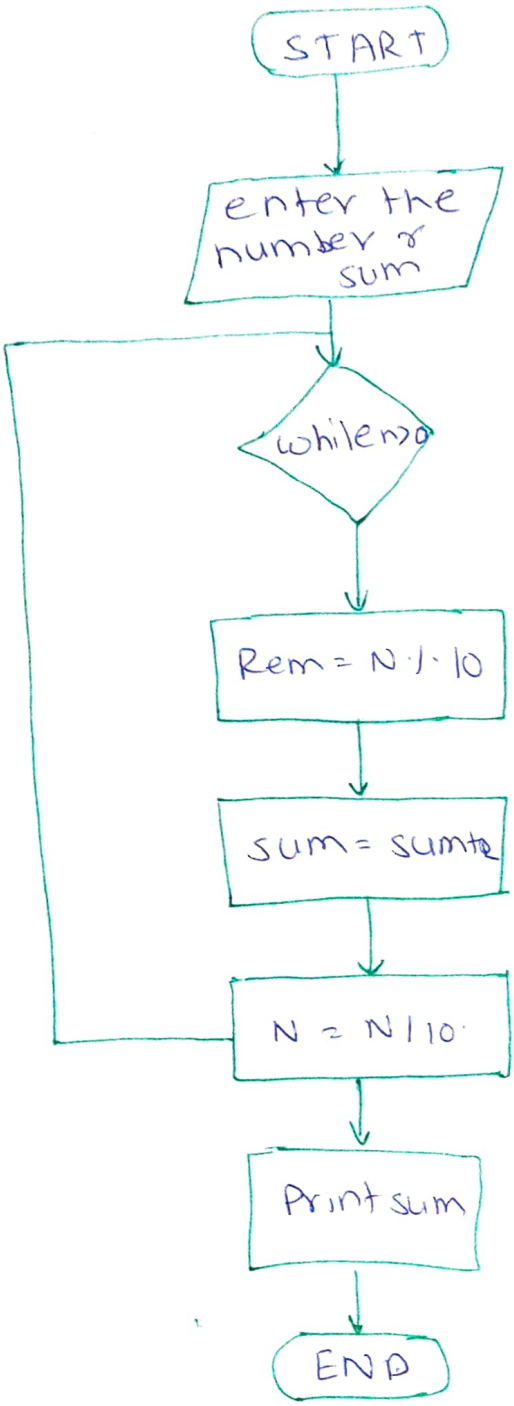
iii) i = i+1 if yes

iv) if no check if (n, i=0)

v) Print i

vi) END.

10) Write a Java program to find sum of digit of given number.



Algo -) enter the number e.g = 126

I) while (n>0)

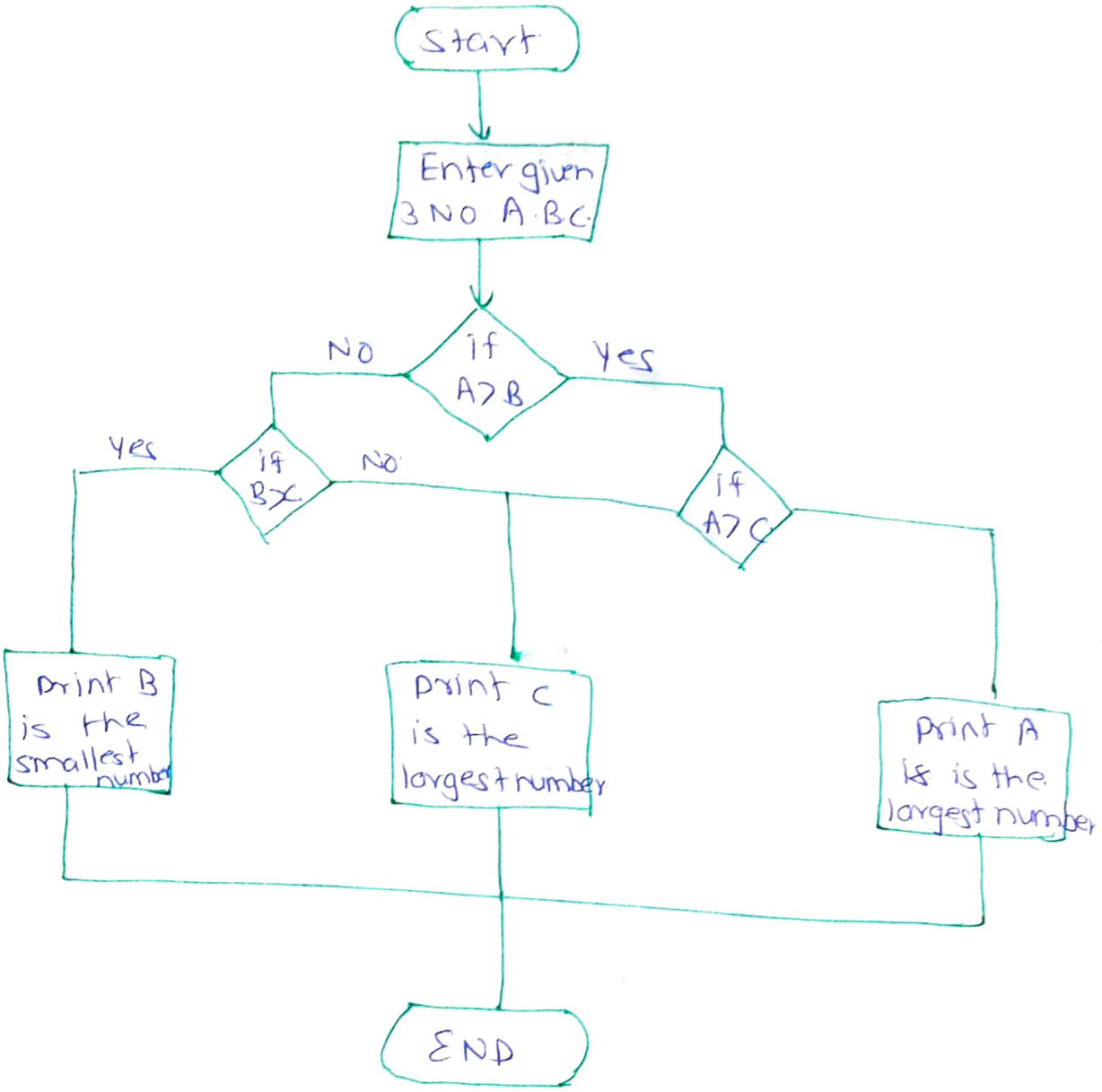
II) r = n % 10;

sum = sum+r;

n = n/10;

sum = 9

11) Flow chart of to find the smallest of 3 numbers.



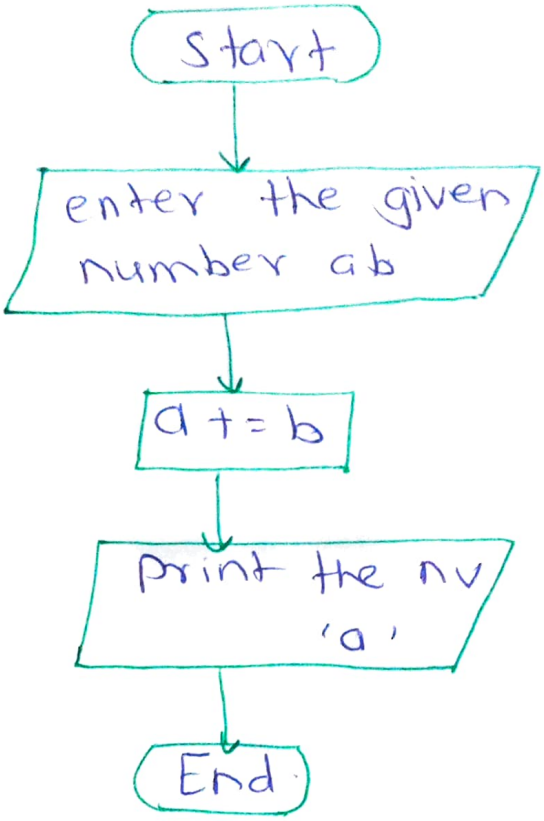
Step I) enter the number a, b, c.

II) if number A > B & A > C then A is smaller number

III) else b or c is smaller number

IV) check B < C if Yes then B is smaller number if No the C is smaller number

12) How to add two numbers without orithmatic operator in java.



Steps :- 1) Start.

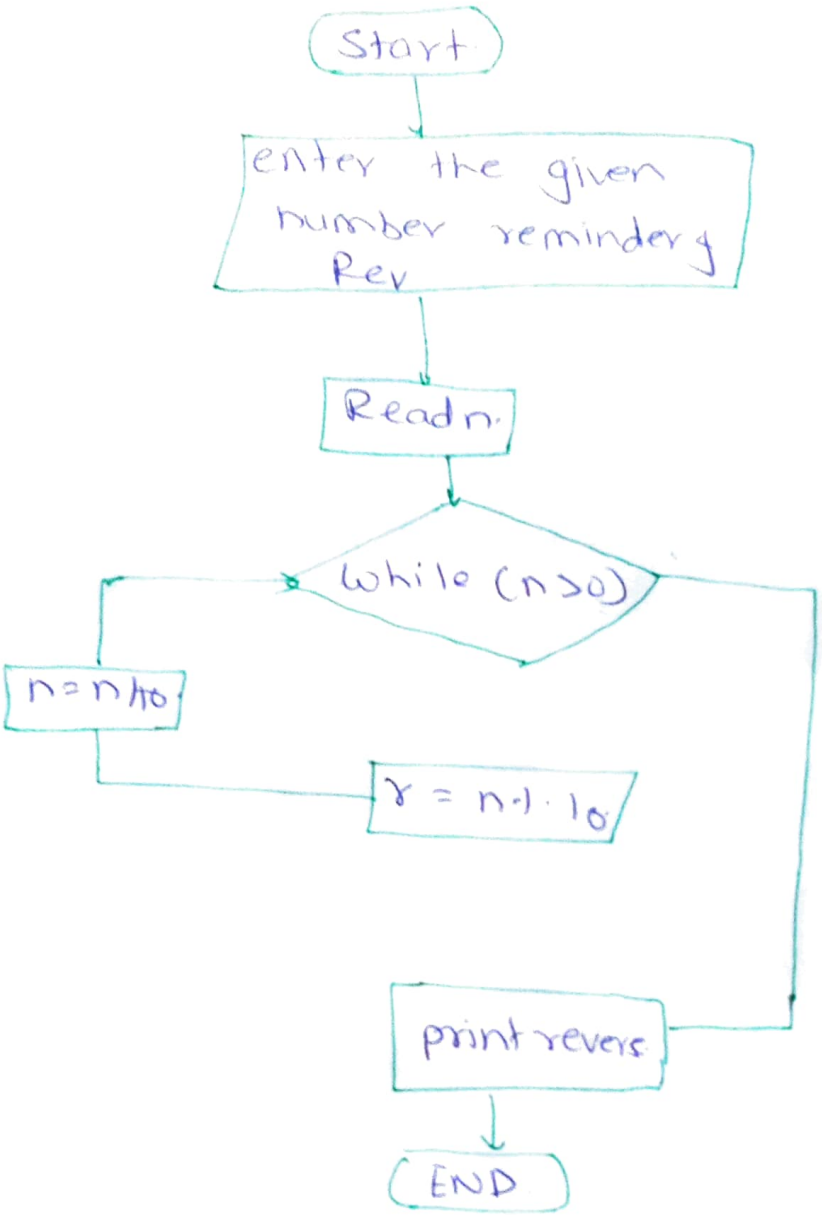
2) enter the two number a, b

3) using short hand operator at=b

4) print the a

5) end.

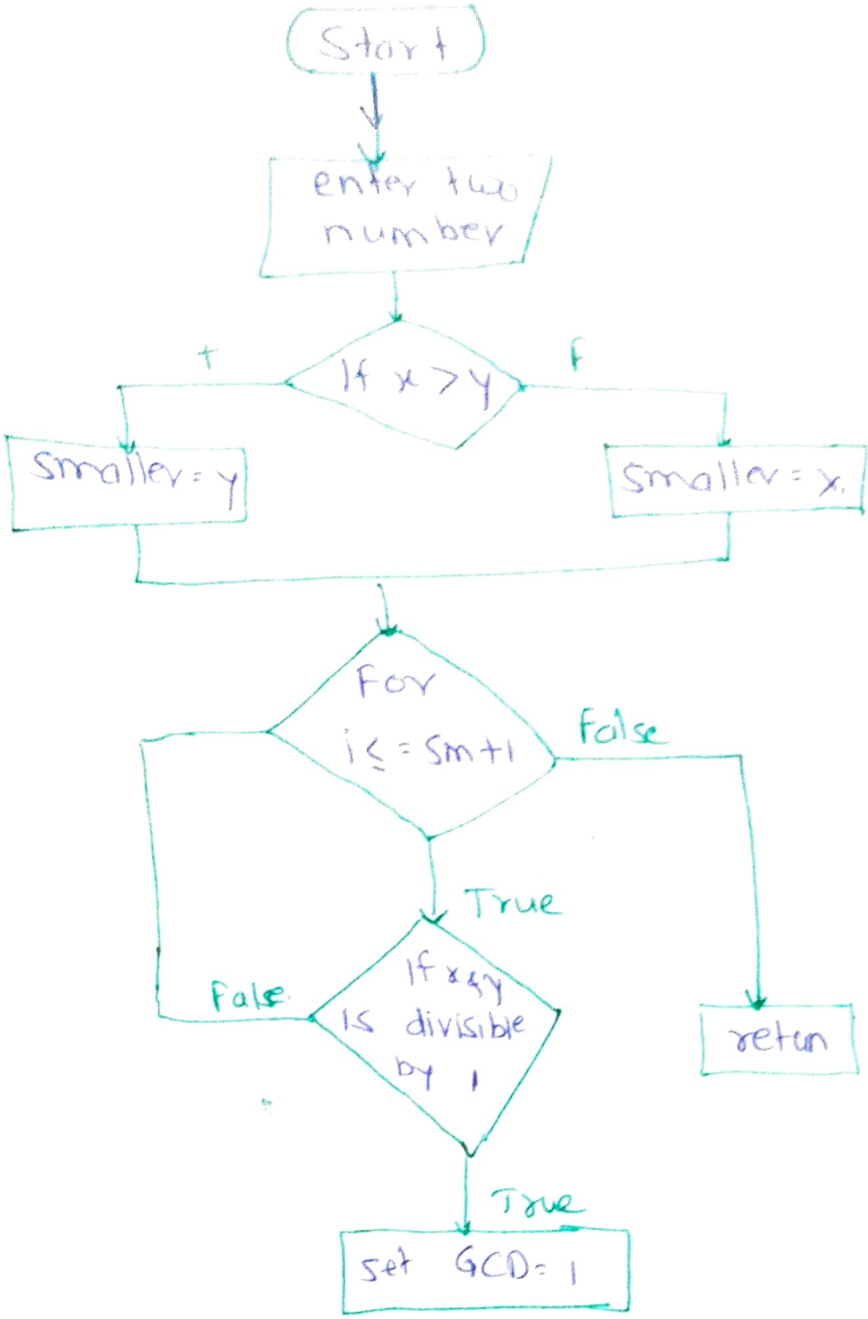
3) write a java program to reverse a given number



Algo -

1) enter the number n ; ??? r
2) while (n>0)
3) r = n.1 10
4) print r
5) n = n/10
6) Point reverse number

14) Write a java program to find GCD of two given Number.



Algo:- 1) Start

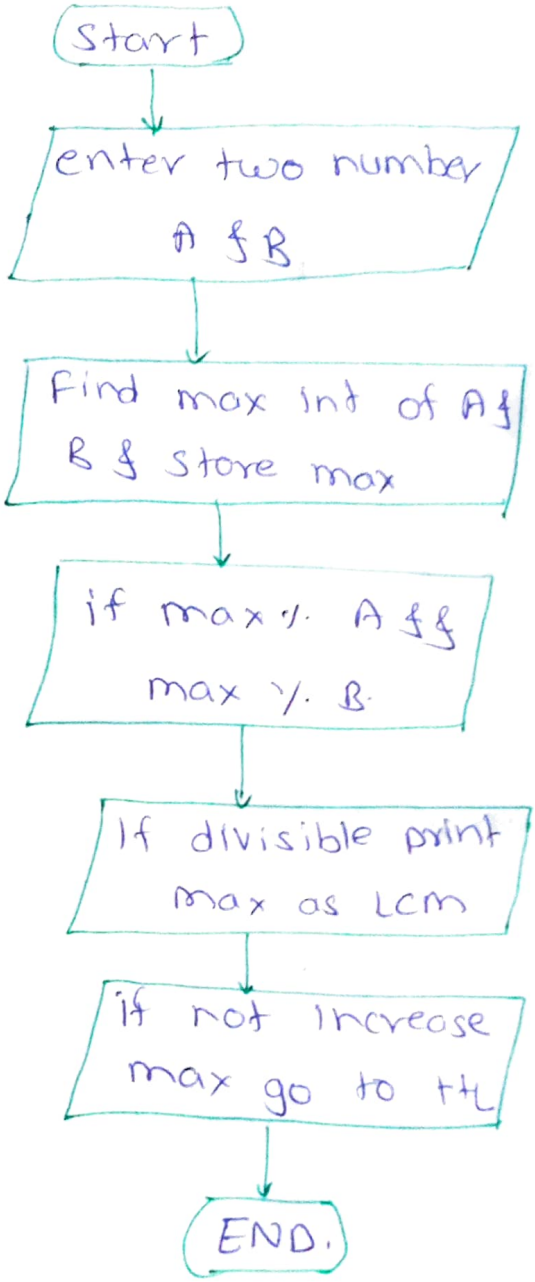
2) Declare two variable x & y

3) loop for x & y for 1 to max of x & y

4) check that the number dividevd by both x & y completly or not if divides then print that variable

5) ~~first~~ End

15) write a java program to find lcm of two given numbers



Algo - 1) initialize A & B with positive integer

END

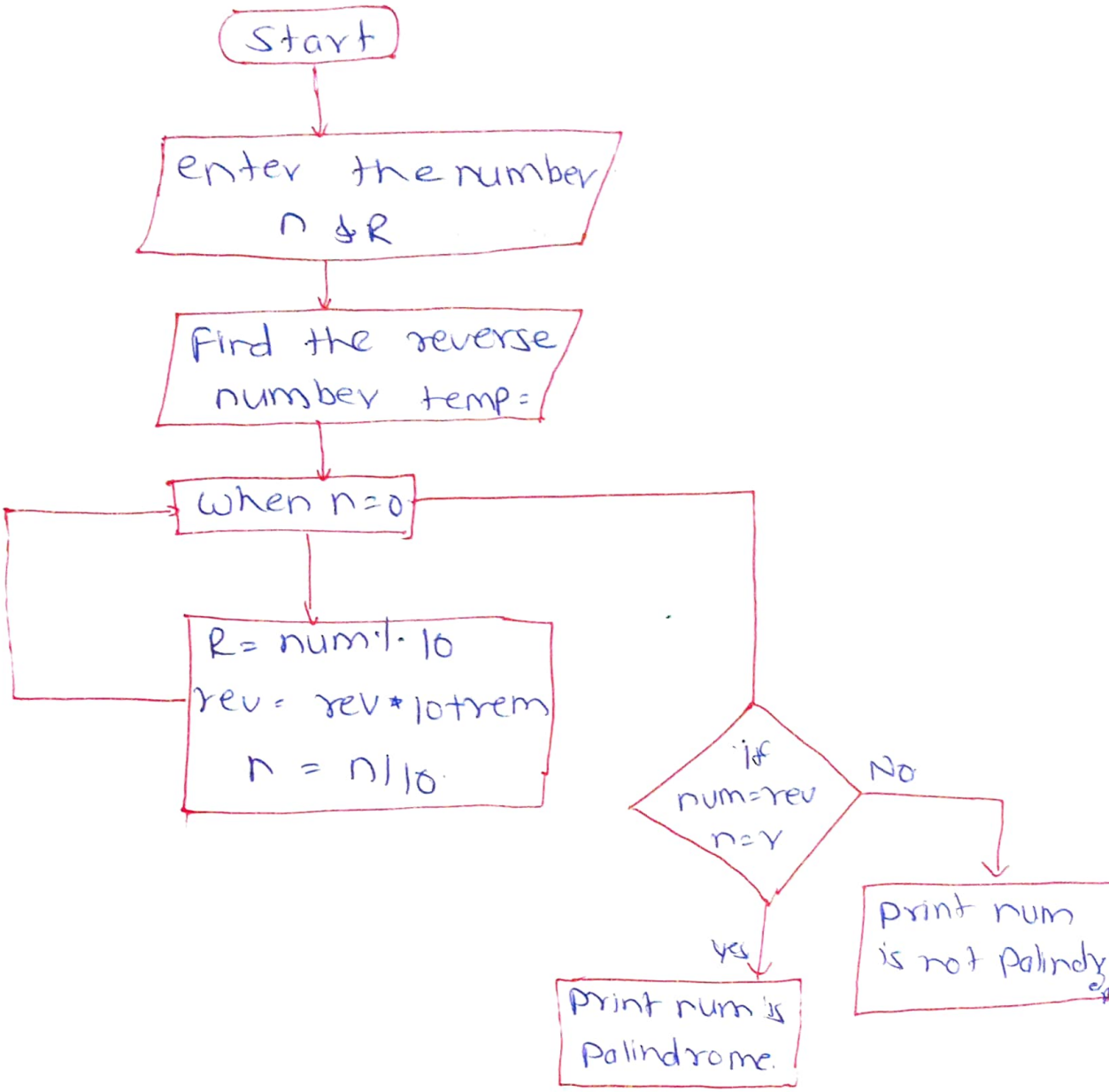
2) store maximum of A & B & 0 to the max

3) check if max is divisible by A & B.

4) if divisible display max as LCM.

5) if not divisible then step increment go step 3.

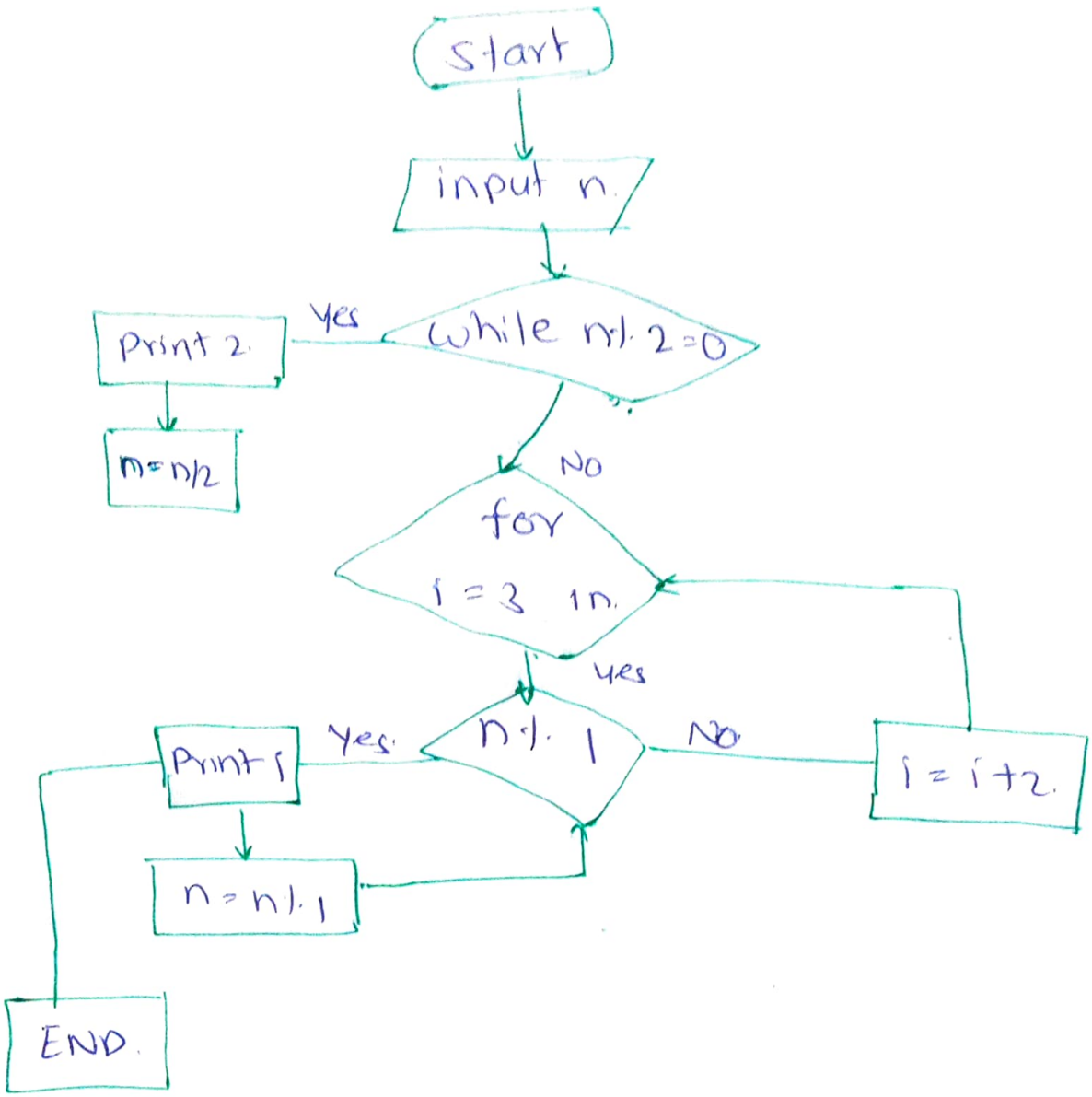
17) Write the program the given number is palindrome or not



Algo -

1) start
2) input the number
3) find the reverse at number r
4) if reverse of the number is equal to the number i.e r==n
5) return true or false.

18) write a Java program to print all the prime factor

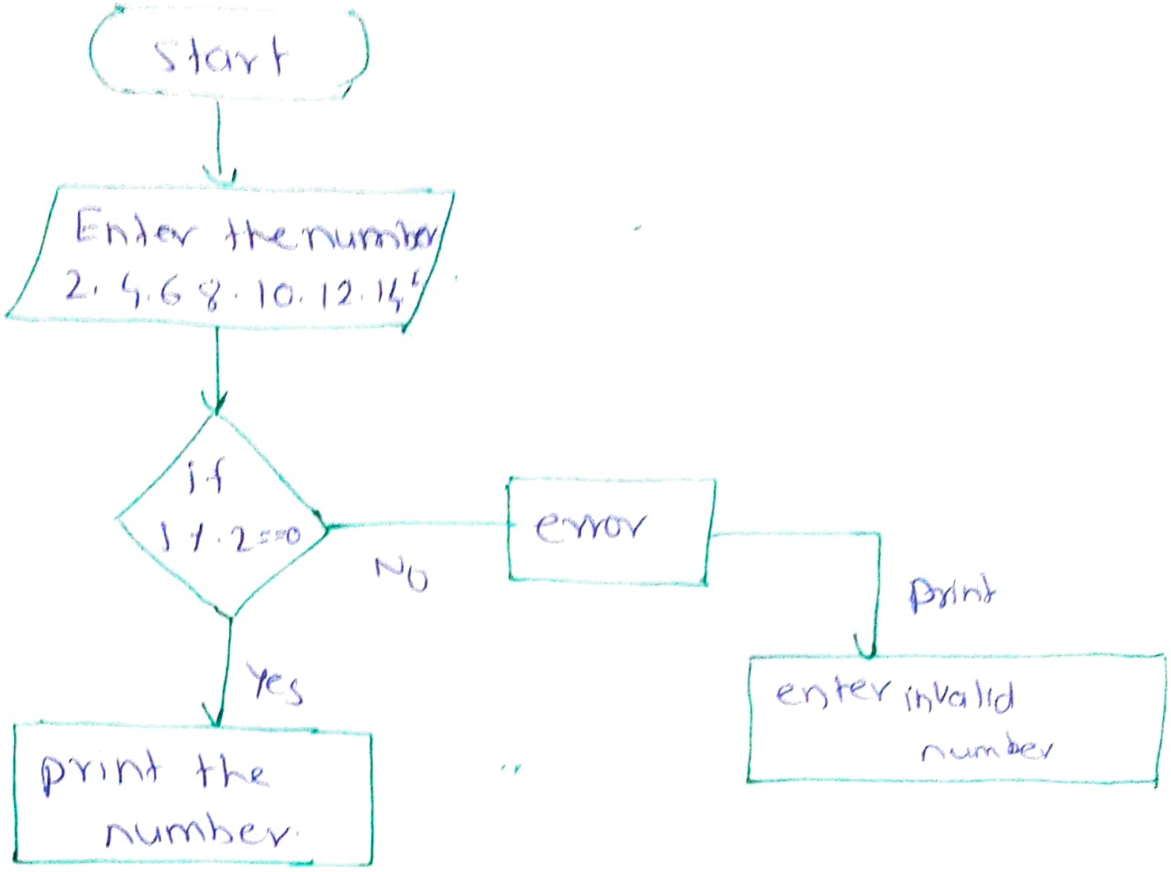


Start :

1) while n is divisible by 2 print 2 & divide by 2
2) after step I n must be added
3) Now start loop from i=3 to square rooth
4) if n is a prime number & is greater than 2 n will not become 1 by above step
5) Print n if it greater than 2.

1g) To print following series even number series

2. 4. 6. 8. 10. 12. 14. 16



Algo -

i) Start

ii) enter the number i = 2. 4. 6. 8. 10. 12. 14. 16.

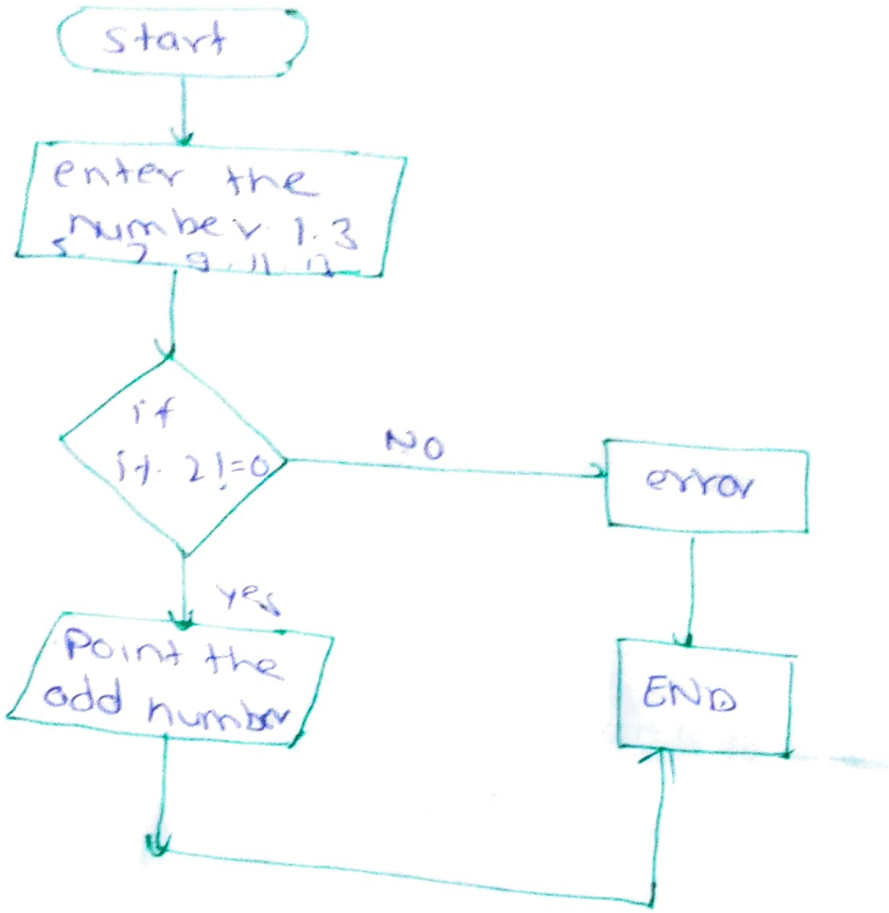
iii) if (i % 2 == 0);

iv) print the number

v) END

20) To print the following series odd number series

1. 3. 5. 7. 9. 11. 13



Algo -

i) start

ii) enter the number i = 1. 3 5 . 7 . 9. 11 . 13

iii) if i % 2 != 0

iv) print the number

v) stop