Assignment No 1

Q.1] check if the given number is EVEN or ODD

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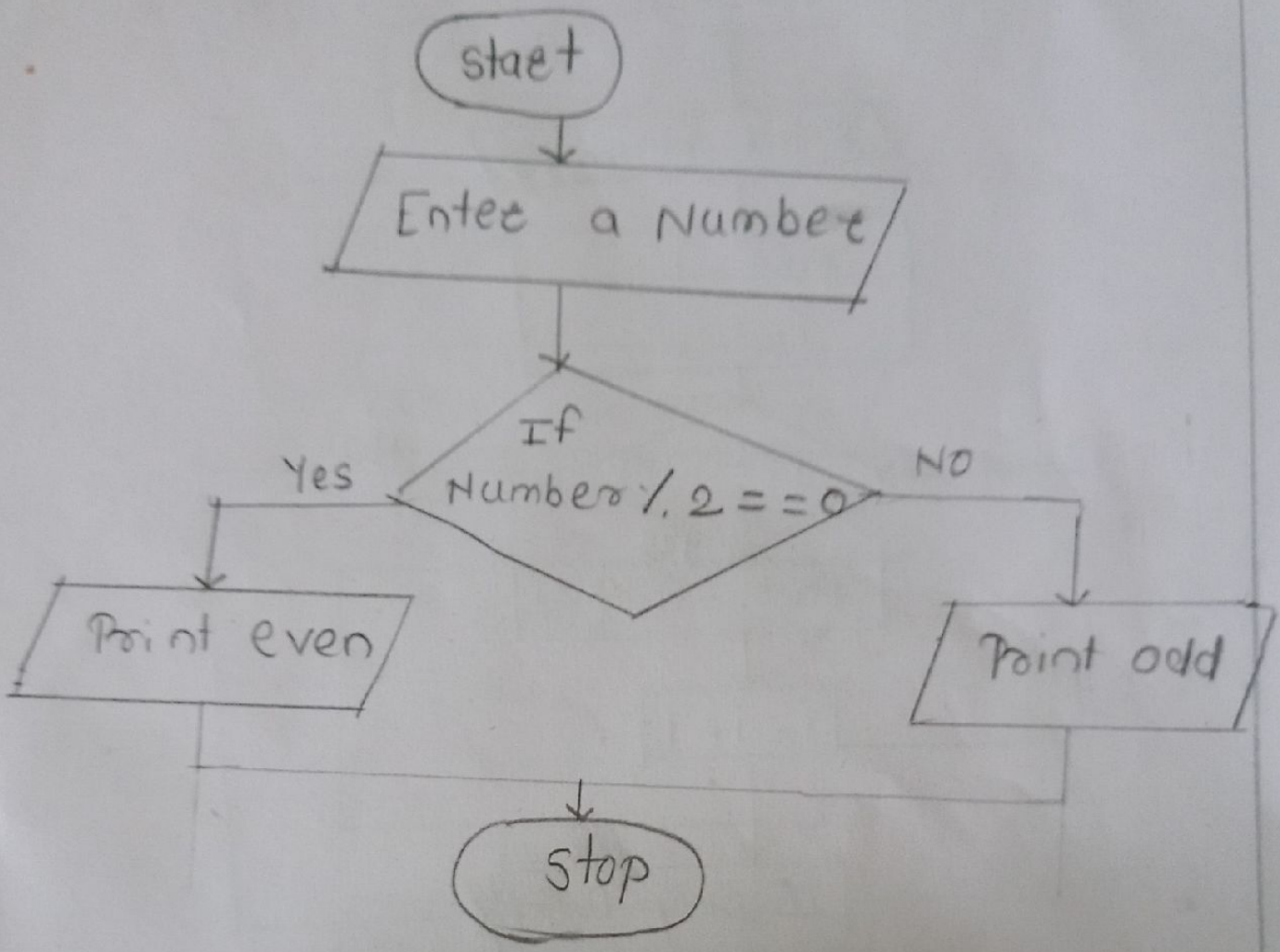

Q.2] Write a Java Program to find the Factorial of a given number.

→ Step 1 : Start
step 2 : Read a number n.
step 3 : Initialize variables : i=1, fact=1
step4 : If i≤n go to step 5 otherwise go to step8
step5 : calculate fact= fact *i.
step6 : Increement the i by 1 (i= i+1) and go to step4
step7 : Print Fact
step8 : Stop.

Q.3 Find the factorial of a number using Recursion.

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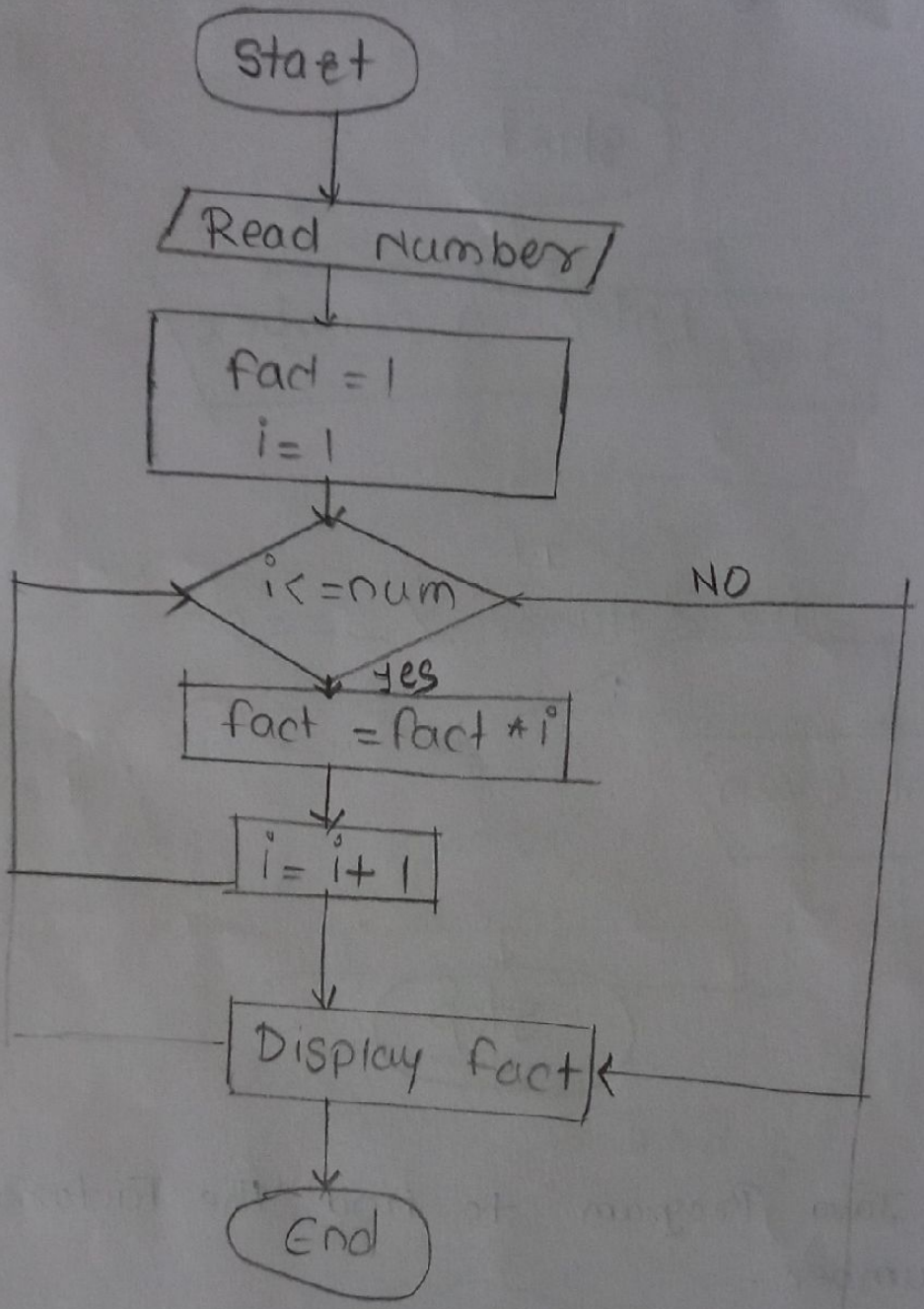

Q.4 Swap two numbers without using the third variable approach.

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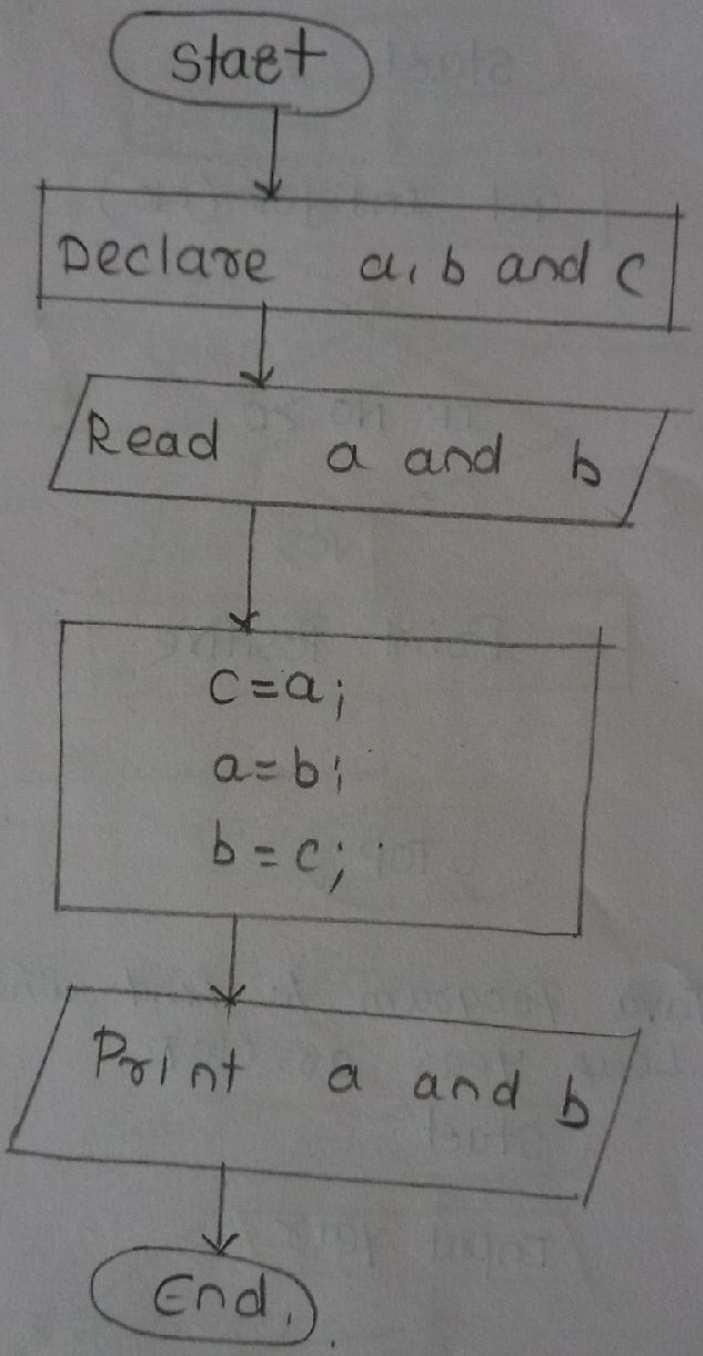

Q.5 How to check whether the given number is Positive or negative in Java?

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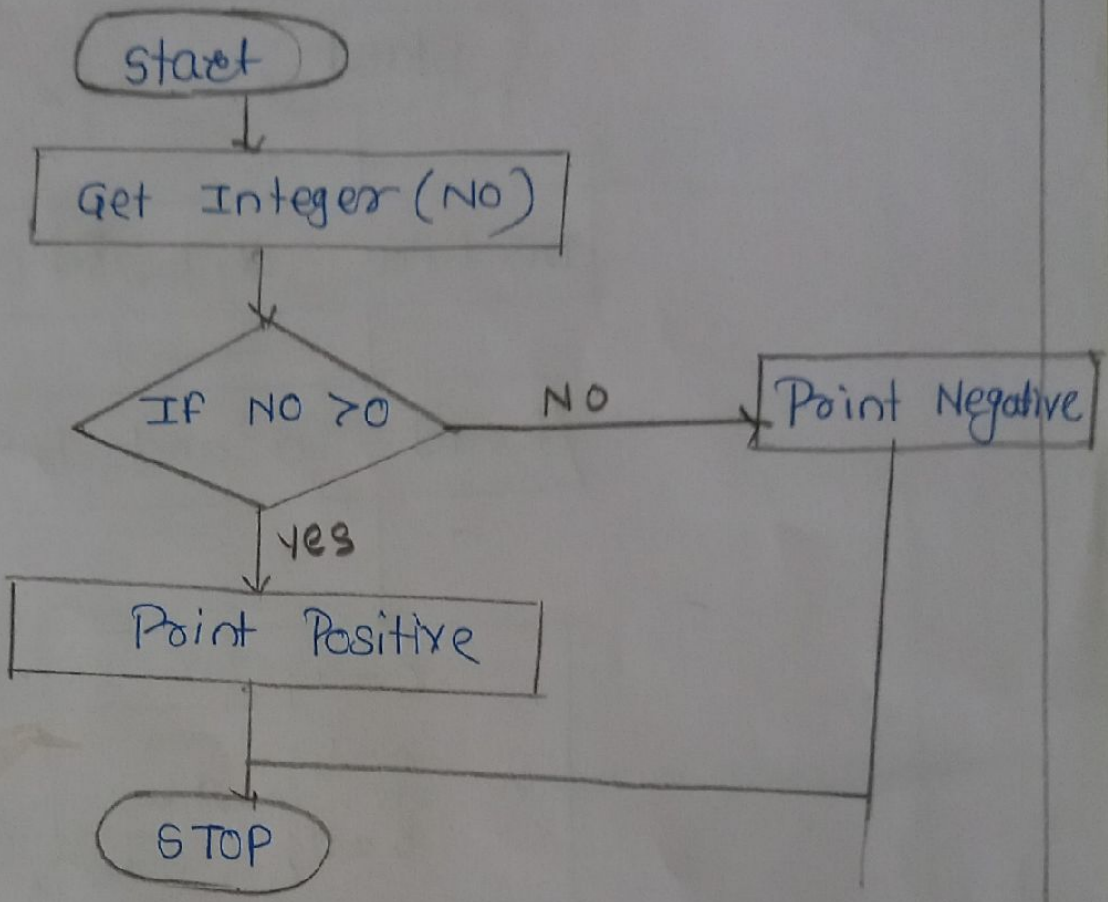

Q.6 Write a Java Program to find whether a given number is Leap year or NOT.

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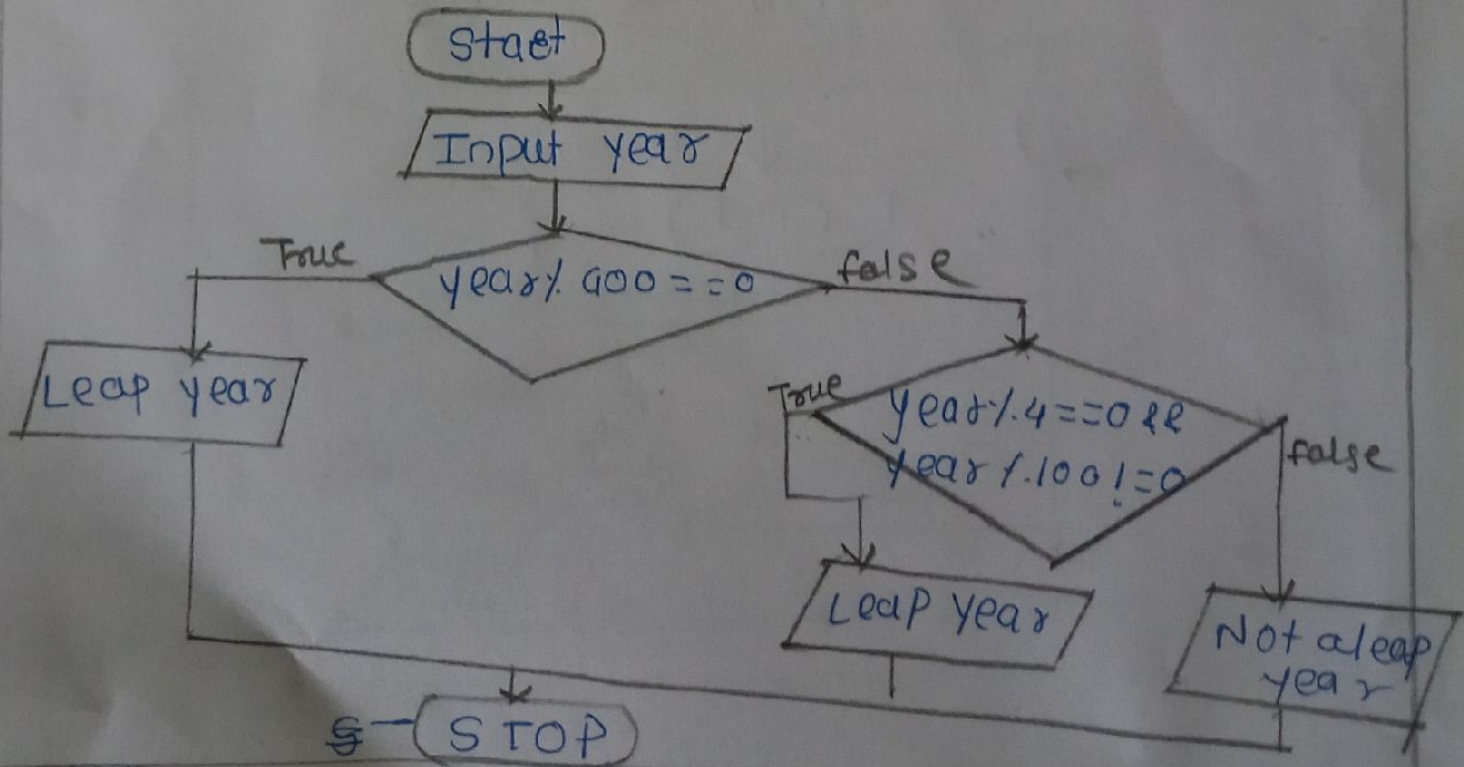
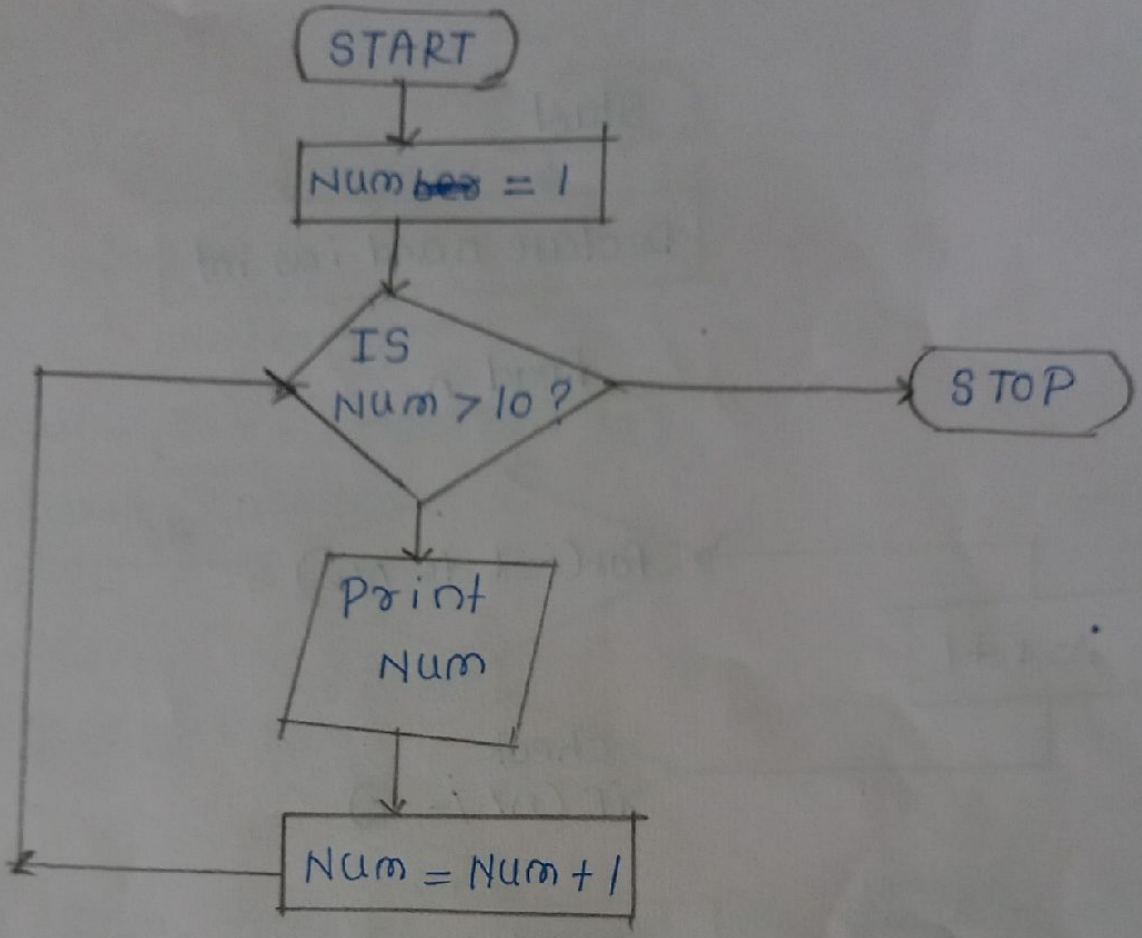
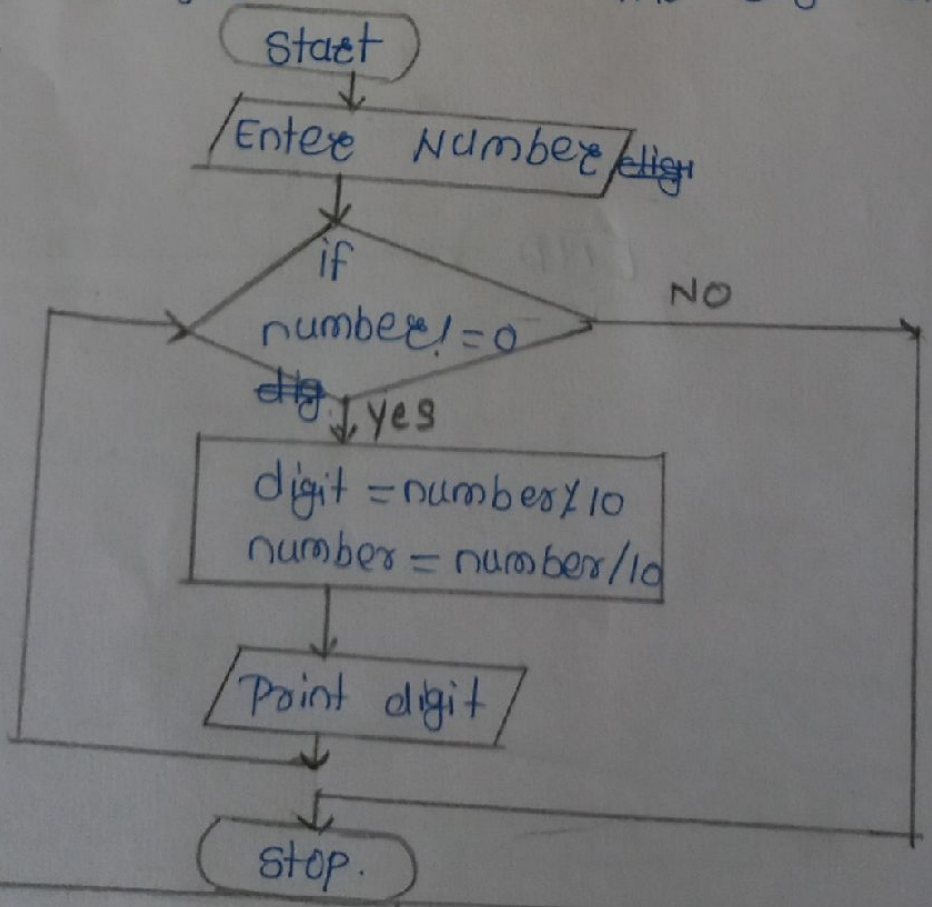


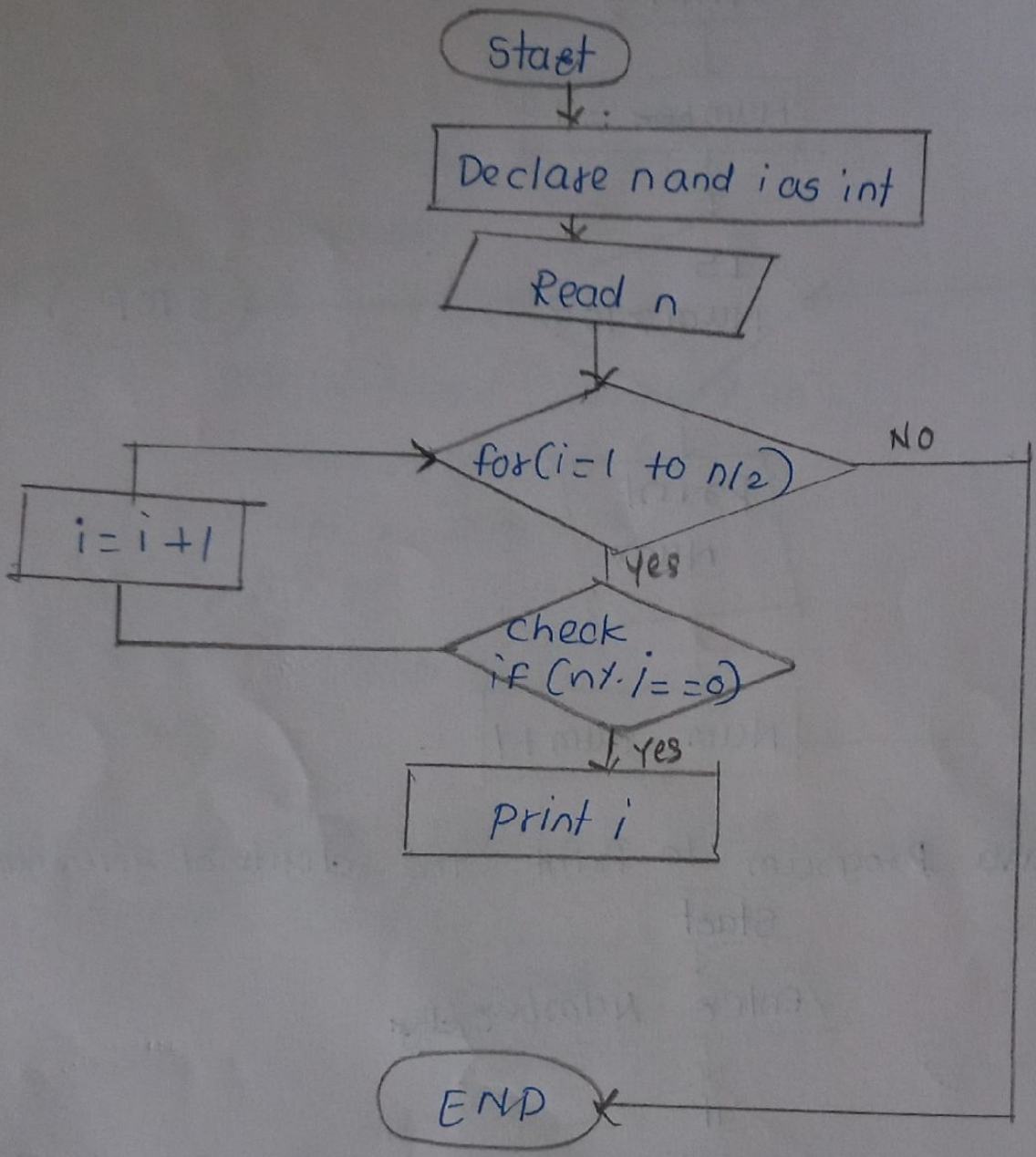
Q7 Write a Java Program to Print 1 to 10 without using loop.



Q8 Write a Java Program to Print the digits of given number



99 Write a Java Program to print all the factors of the given number.



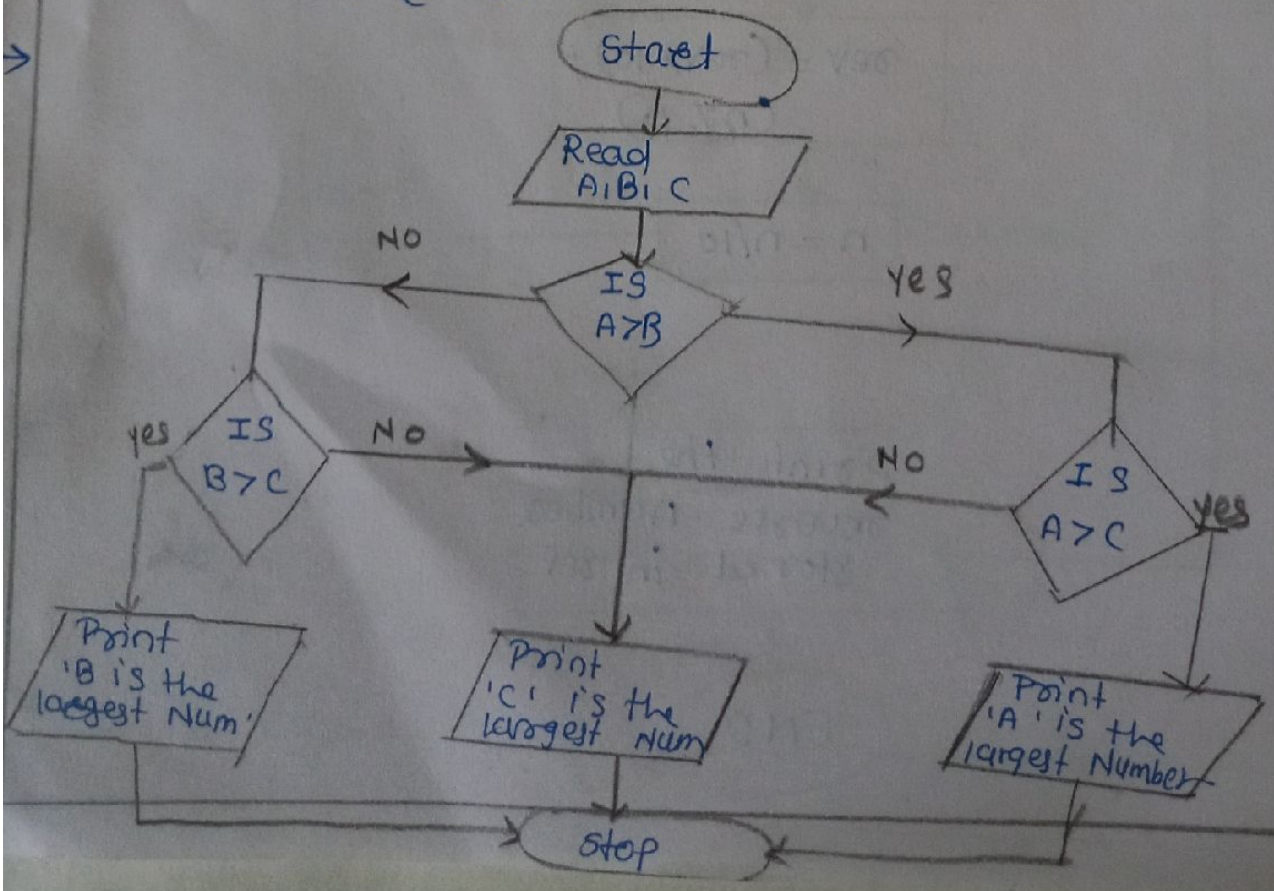
(1)

Q) [i] Write a Java Program to find the sum of the digits of a given number:

→ 1. Begin
2. digits = 0
3. Sum = 0
4. PRINT "Enter Number"
5. READ number
6. WHILE number ≠ 0
    Sum = Sum + (number % 10)
    number = number / 10
    digits = digits + 1
   END WHILE
7. PRINT digits, sum
8. END.

Q. [ii] Write a Java Program to find the ~~smallest~~ largest of 3 numbers (a, b, c).

→



Q12 How to add two numbers without using the arithmetic opeeatoes in Java?

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```
1. int carry = (a & b);
2. a = a ^ b
3. b = carry << 1;
4. return a;
```

Q13 Write a Java Program to Reverse a given number.

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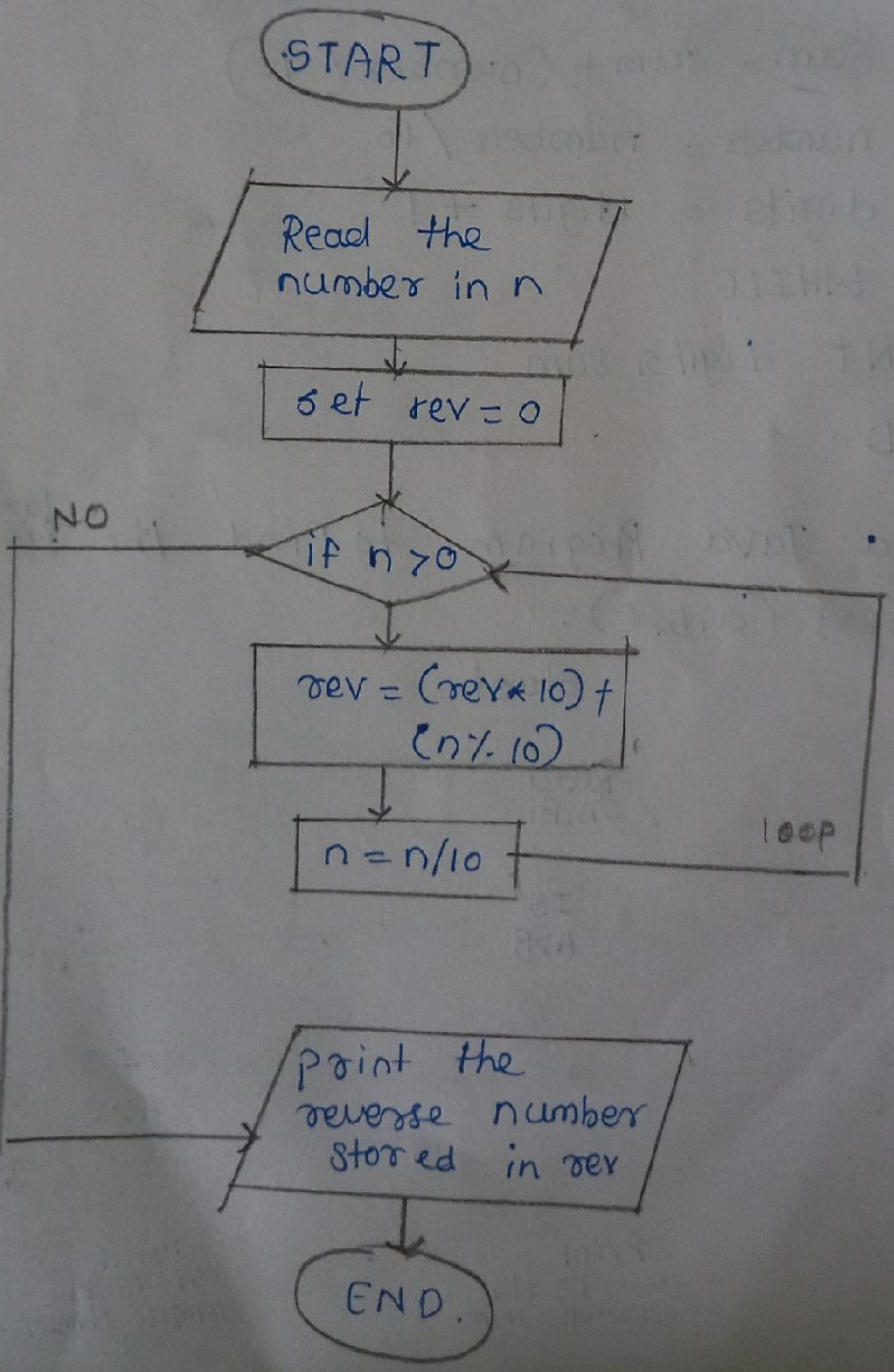


Q.14] WAP to find the GCD of two given numbers.

→ Algo;-

Step 1 : Start

Step 2 : Declare variable n1, n2, gcd=1, i=1

Step 3 : Input number1 and number 2
(n1) (n2)

Step 4 : Repeat until i<=n1 and i<=n2

4.1] → If n1%.i==0 && n2%.i==0

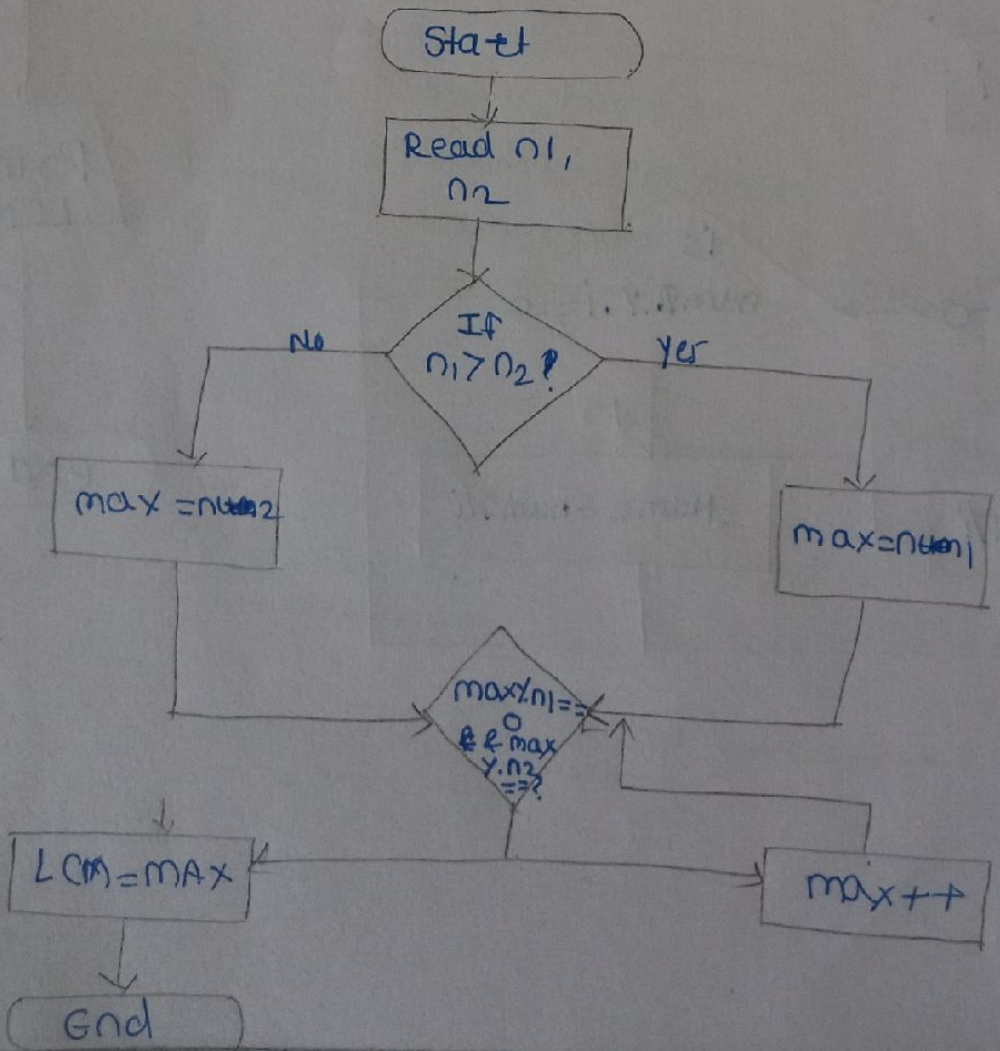
4.2] gcd = i

Step 5 : Print gcd.

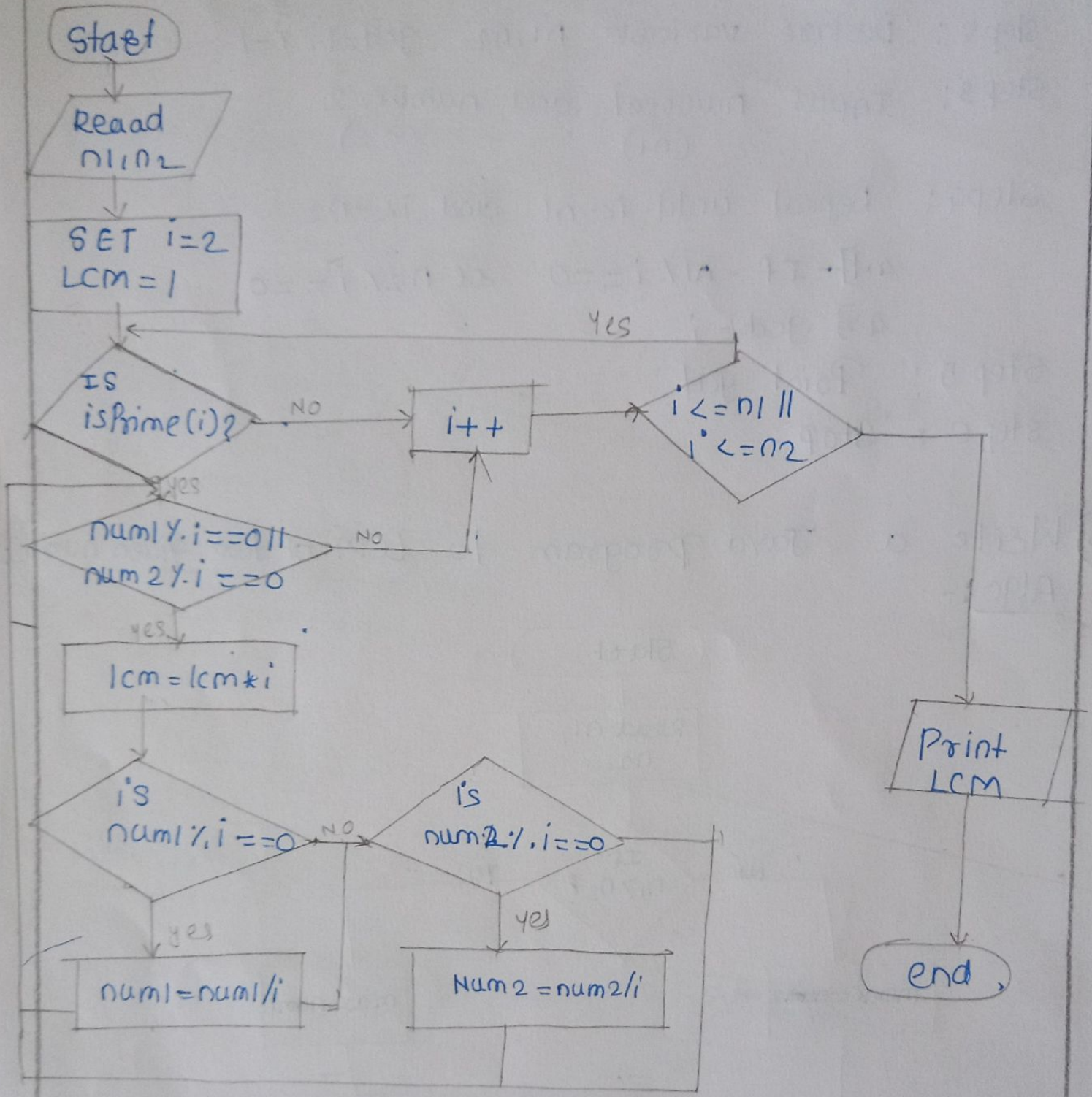
Step 6 : Stop.

Q.15] Write a Java Program to LCM of two given number.

Algo:-



Q6 Write a Java Program to LCM of Two given numbers using the Prime factors method.



Q17] Check whether the Given number is a Palindrome or Not.

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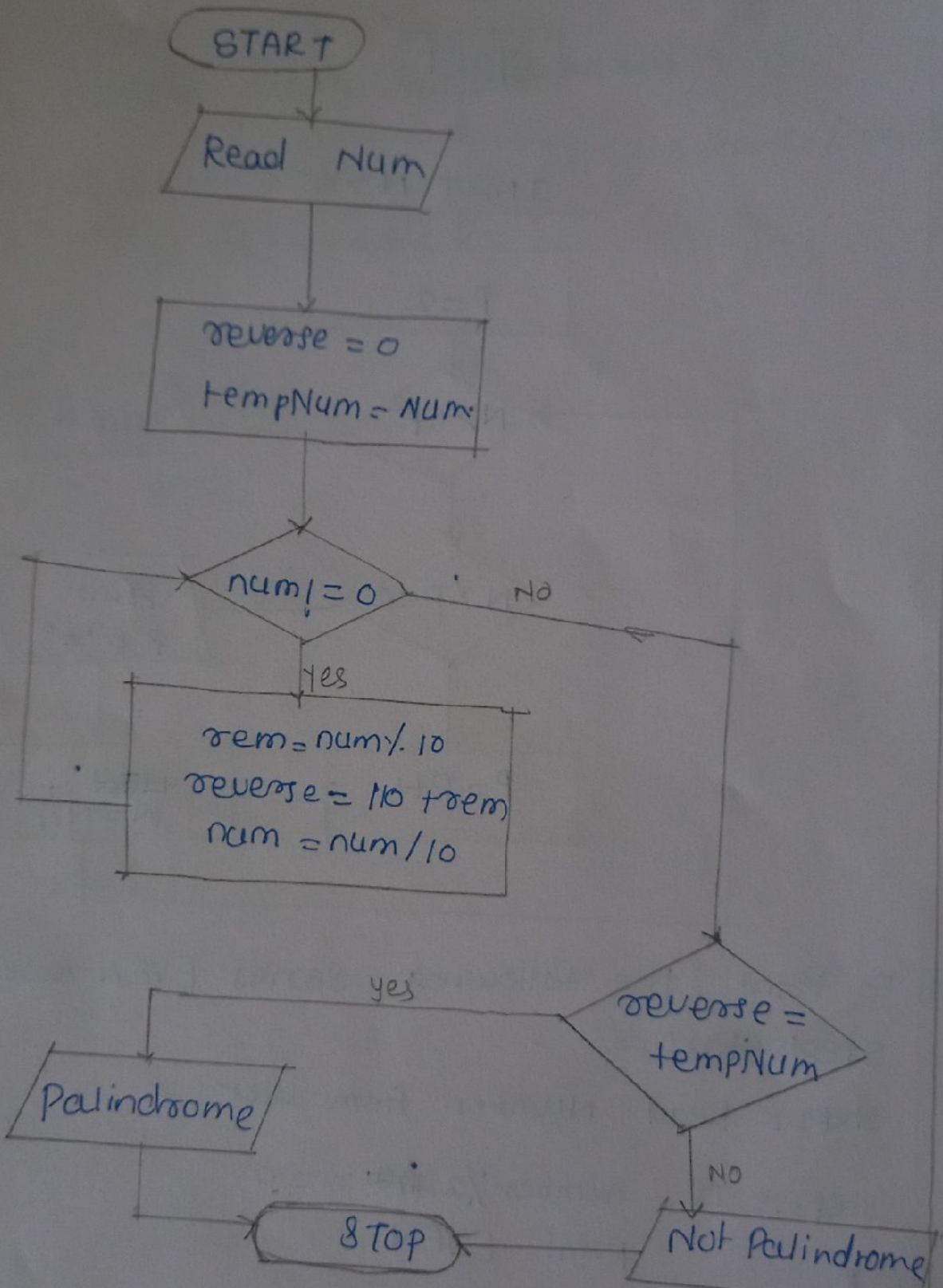
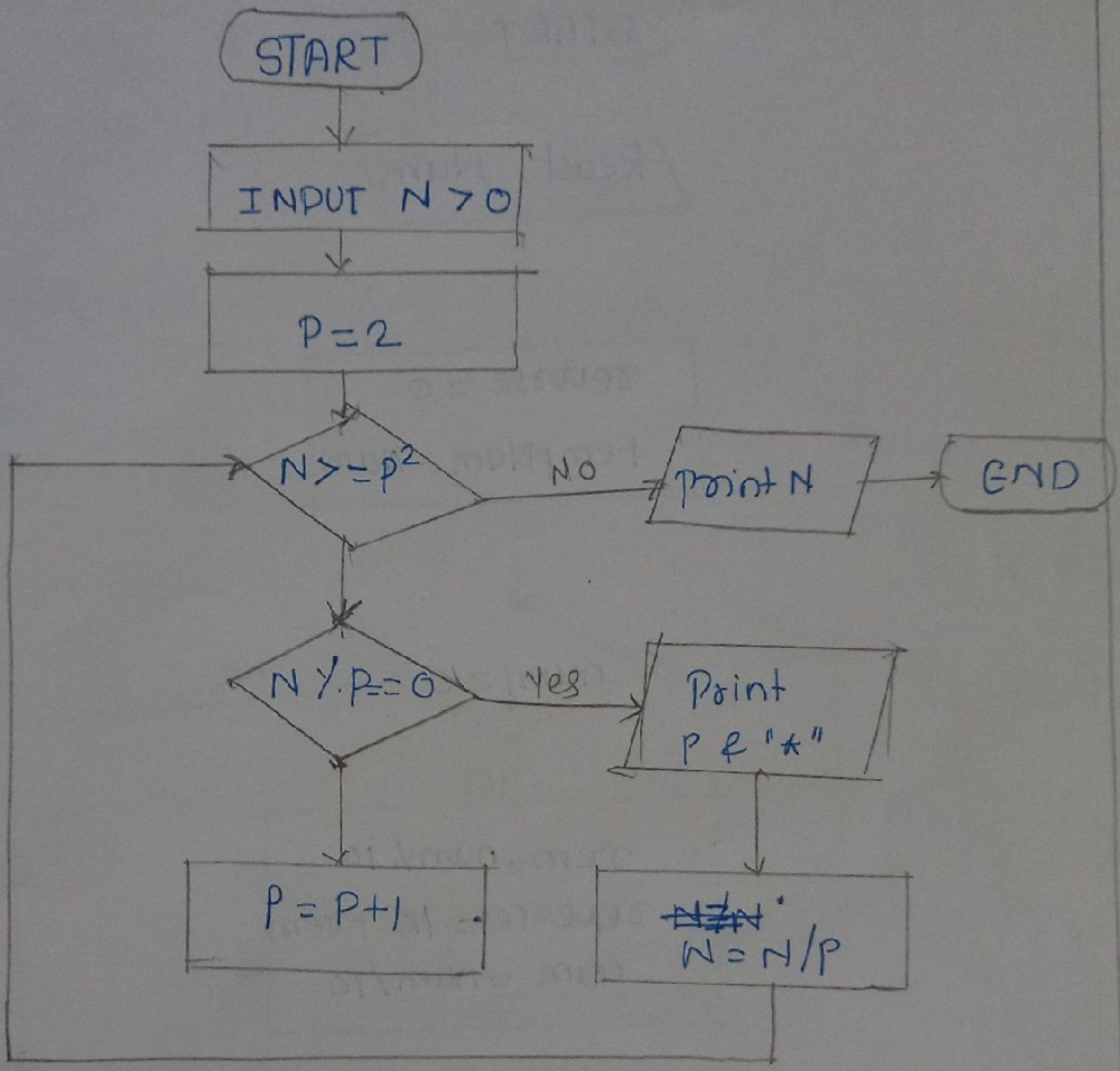


Q18] Write a Java Program to print all the Prime Factors of the Given number.



Q.19] To Print the following Series EVEN NoSeries 2, 4, 6, 8, ...

Step1: Start

Step2: Read Number from User

Step3: If number % 2 == 0

Print EVEN

Step4: END

Q2) To print the following series ODD Number series..

Step 1 : Start

Step 2 : Read variable ~~Num and and A~~ n

Step 3 : Repeat step 3.1 to 3.3 while (n<=100)

Step 3.1 : if (n%.2 != 0)

Step 3.2 : print n

Step 3.3 : n = n+1

Step 4 : STOP