Ex. No.: 1

Date: 18/10/2024

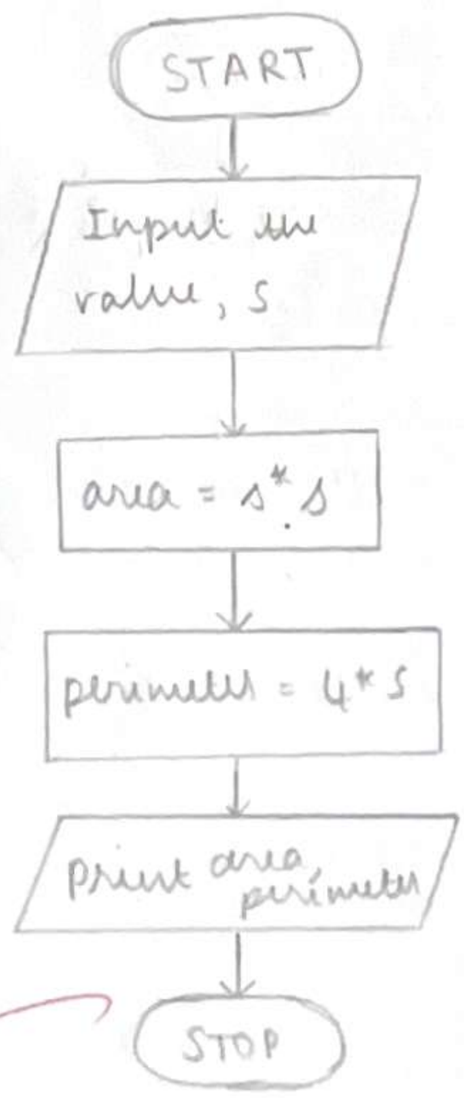
Calculate Area and Perimeter

Write an Algorithm and draw a Flowchart to Calculate the area and perimeter of a square.

Algorithm:

STEP 1 : Start the program
STEP 2 : Get the value (s) for side of square
STEP 3 : Print area, area = s * s
STEP 4 : Print perimeter, perimeter = 4 * s
STEP 5 : Stop the program

Flowchart:



RPR

Ex. No.: 11 **Date:** 18/10/2024

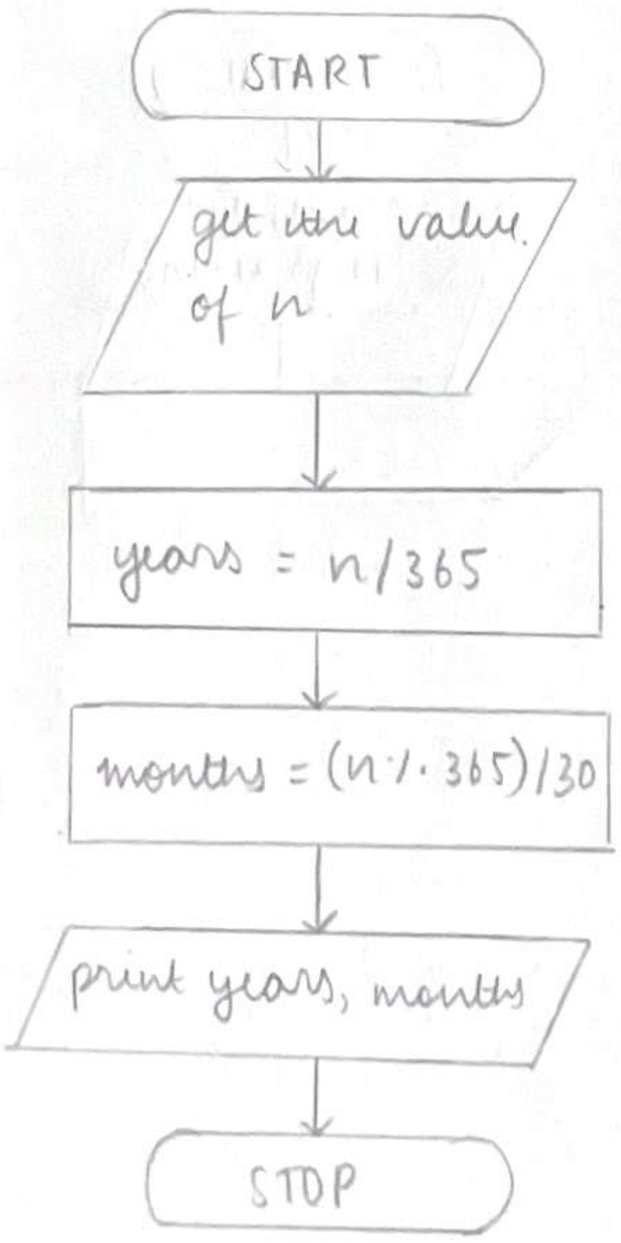
Days to Year Conversion

Write an Algorithm and draw a Flowchart to convert the given days into years & months.

Algorithm:

STEP 1 : Start
STEP 2 : Get the value n, for no. of days
STEP 3 : Print years as n/365
STEP 4 : Print months as (n%365)/30
STEP 5 : Stop

Flowchart:



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28/10

Ex. No.: 11

Date: 18/10/2024

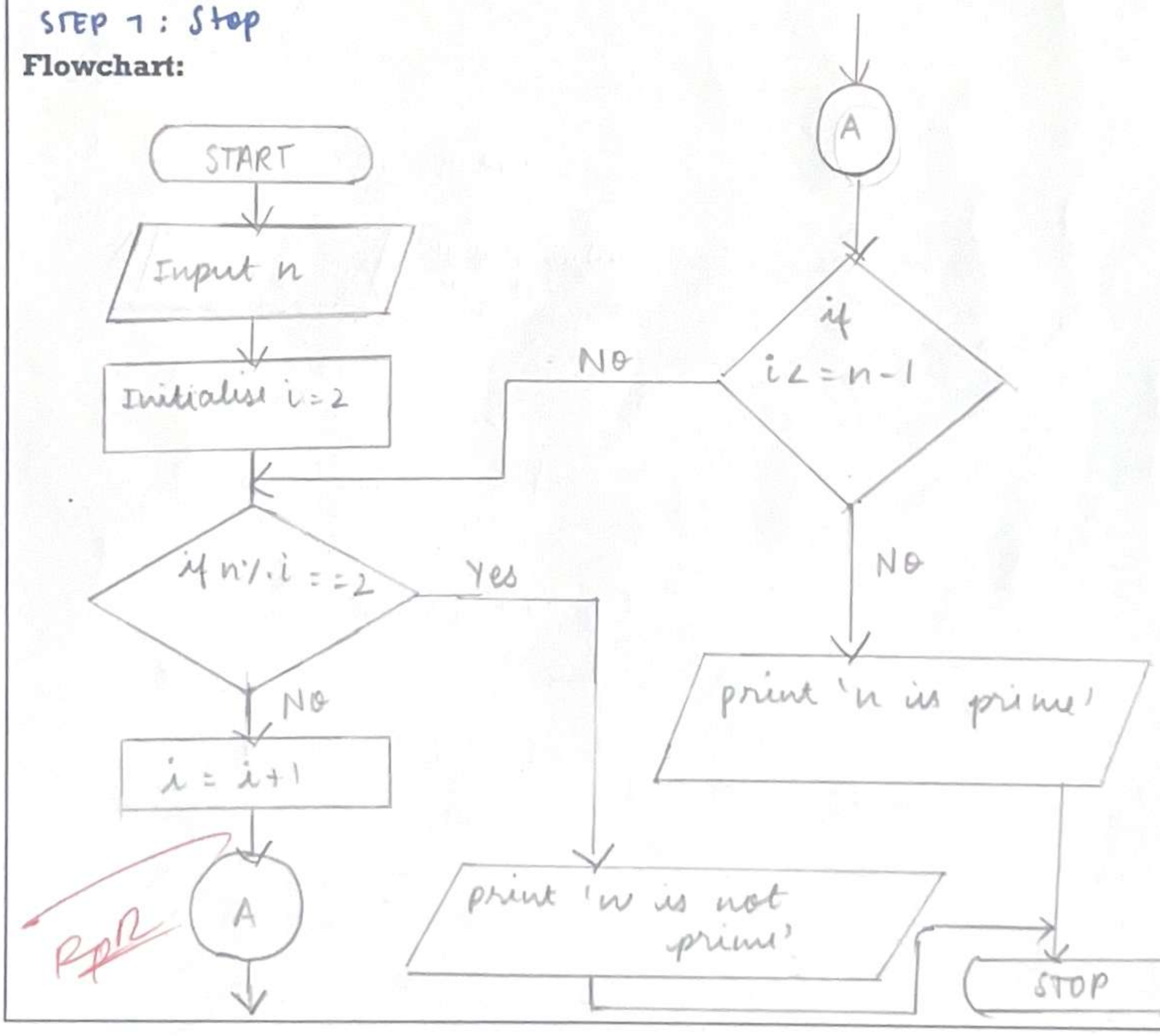
Prime Number

Write an Algorithm and draw a Flowchart to check whether the given number is Prime or not.

Algorithm:

STEP 1 : Start
STEP 2 : Input n
STEP 3 : Initialise $i = 2$
STEP 4 : If ($n \% i == 0$), print 'n is not prime', go to stop
STEP 5 : Else, $i = i+1$
if $i <= n-1$
go to step 4
else
go to step 6
STEP 6 : Print 'n is prime'
STEP 7 : Stop

Flowchart:



Ex. No.: IV **Date:** 18/10/2024

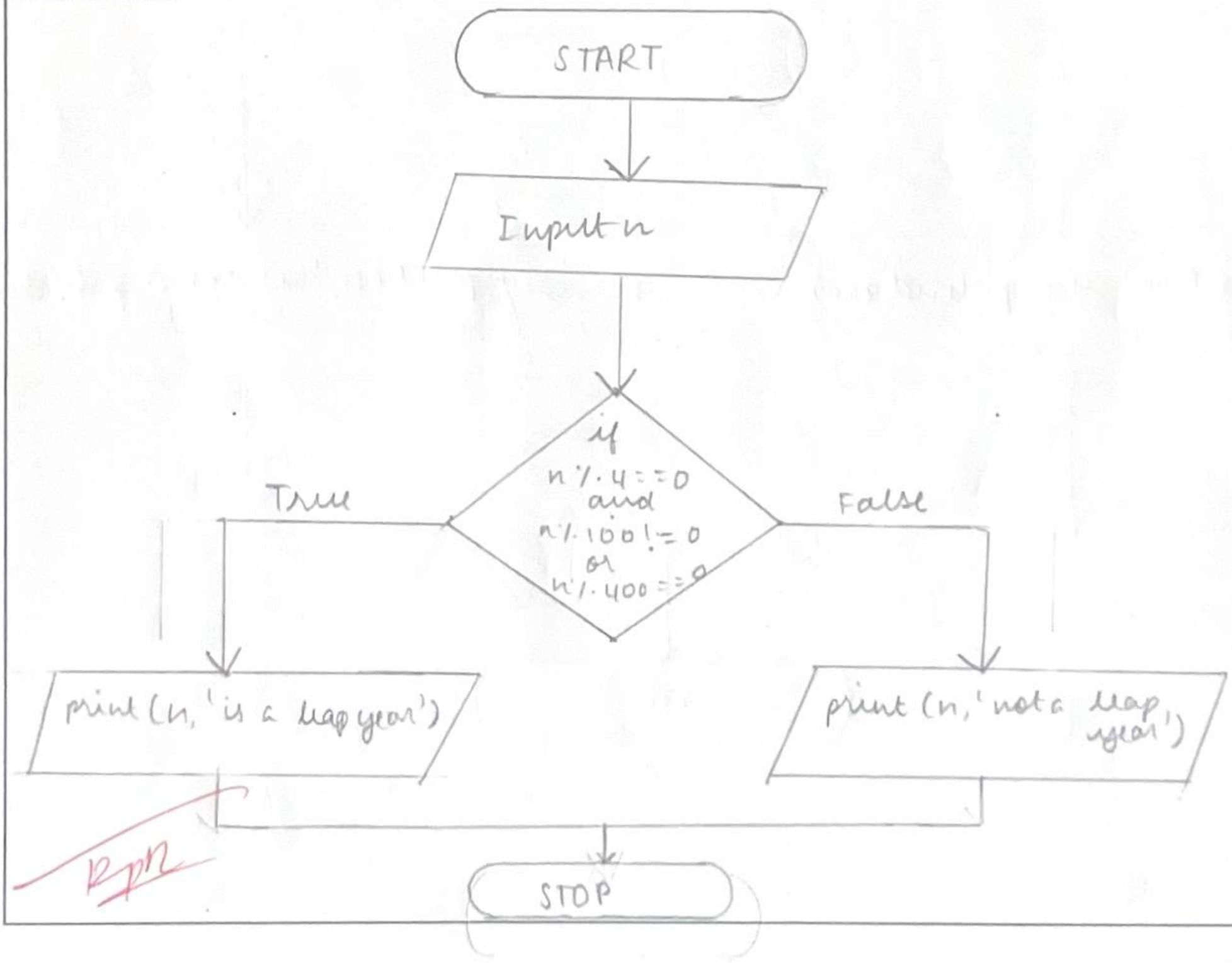
Leap Year

Write an Algorithm and draw a Flowchart to check whether the given year is Leap year or not.

Algorithm:

STEP 1 : Start
STEP 2 : Input year (n)
STEP 3 : Check if n%.4 == 0 and n%.100 != 0 or n%.400 == 0
STEP 4 : If true, n is a leap year. Else, n is not a leap year
STEP 5 : Stop

Flowchart:



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Ex. No.: V

Date: 18/10/2024

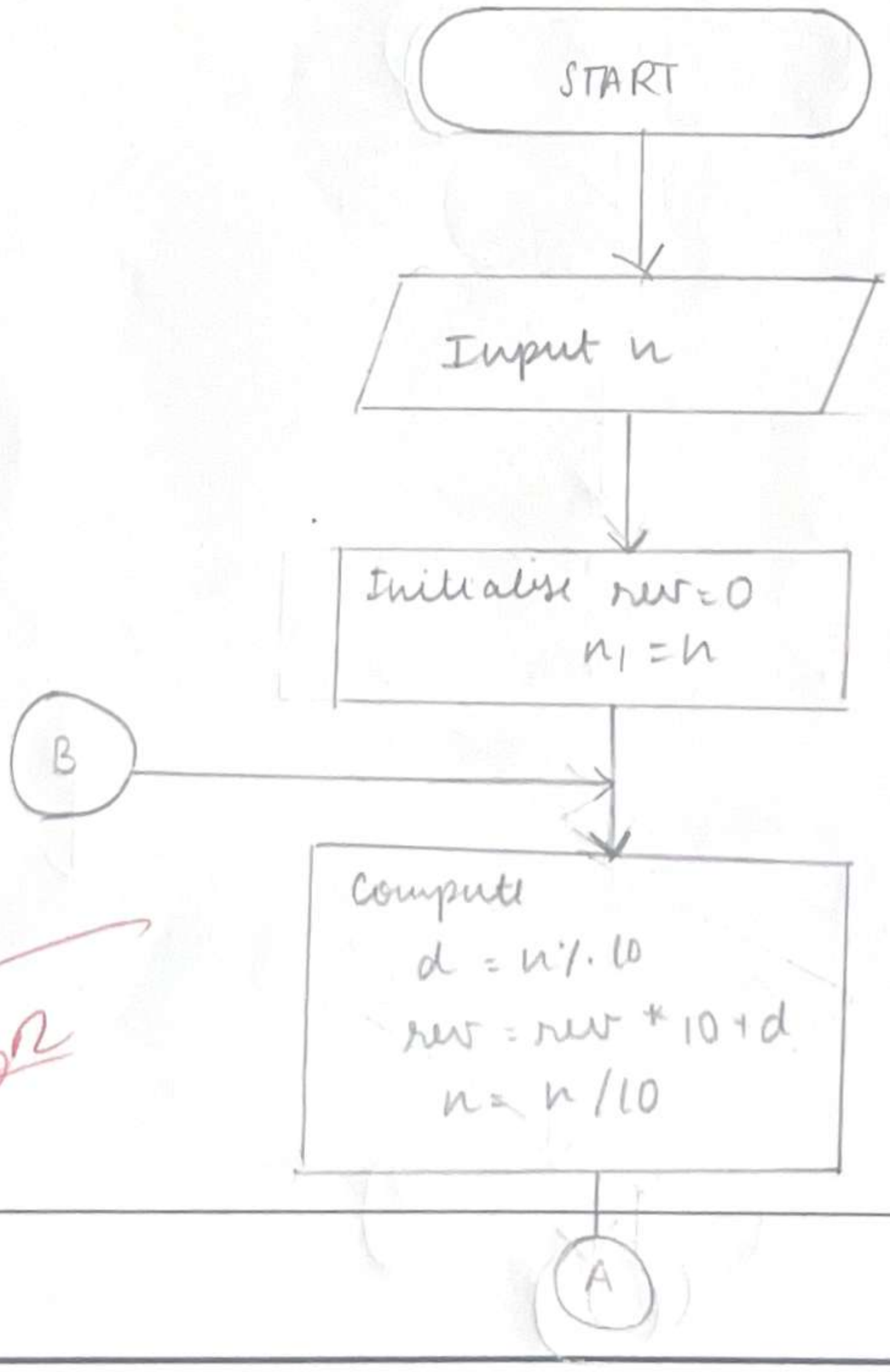
Palindrome Number

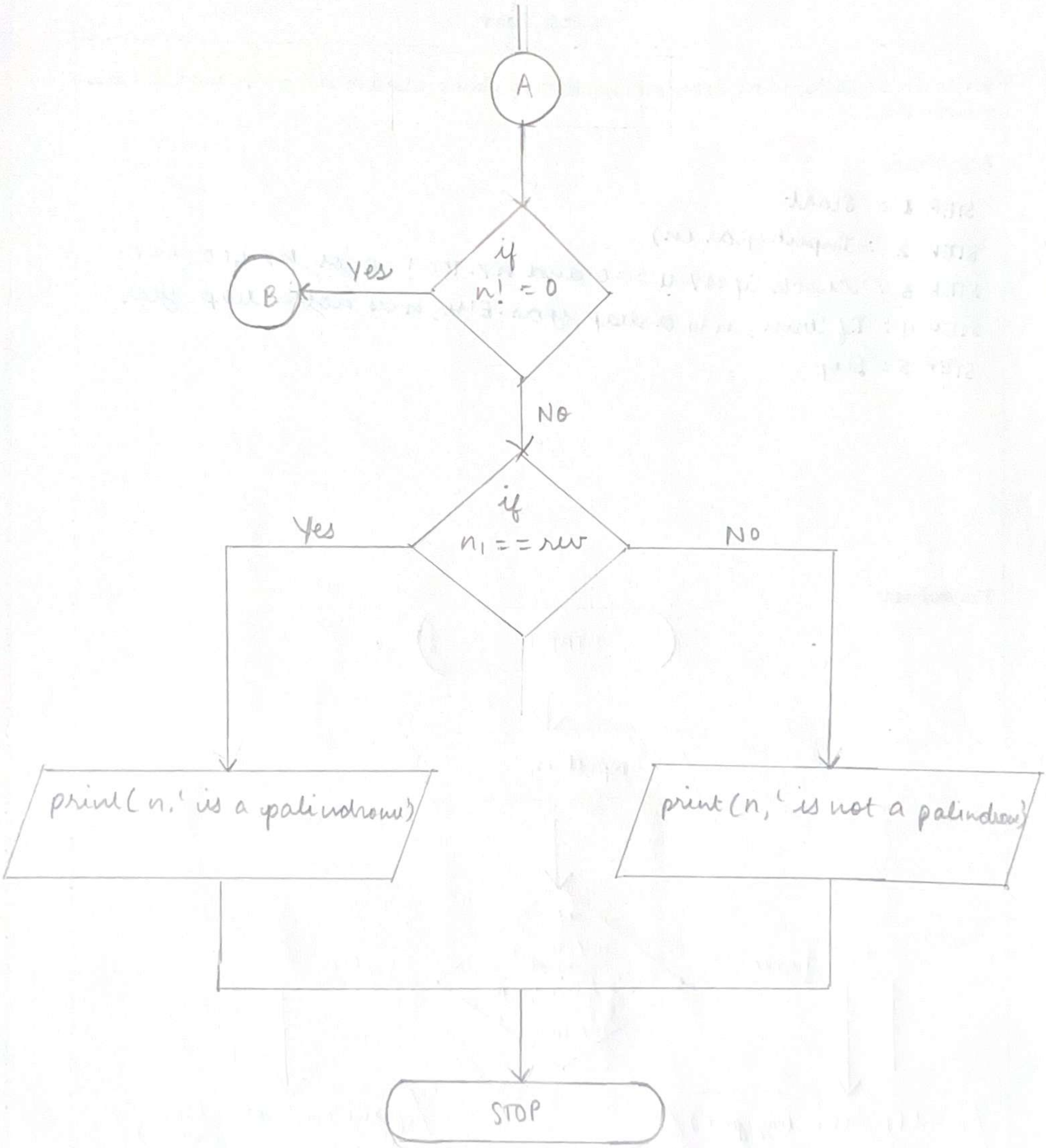
Write an Algorithm and draw a Flowchart to check whether the given number is palindrome number or not.

Algorithm:

STEP 1 : Start
STEP 2 : Input n
STEP 3 : Initialise rev = 0 , n_1 = n
STEP 4 : Compute d = n%.10
STEP 5 : Compute rev = rev * 10+d
STEP 6 : Compute n = n/10
STEP 7 : If n! = 0 , go to step 4 . Else, go to step 8
STEP 8 : If n_1 = rev, print 'n is a palindrome'.
STEP 9 : Else, print 'n is not a palindrome'
STEP 10 : Stop

Flowchart:




A
if
n! = 0
Yes
B
NO
if
n1 == rev
Yes
NO
print(n,' is a palindrome')
print(n,' is not a palindrom')
STOP

Ex. No.: VI **Date:** 18/10/2024

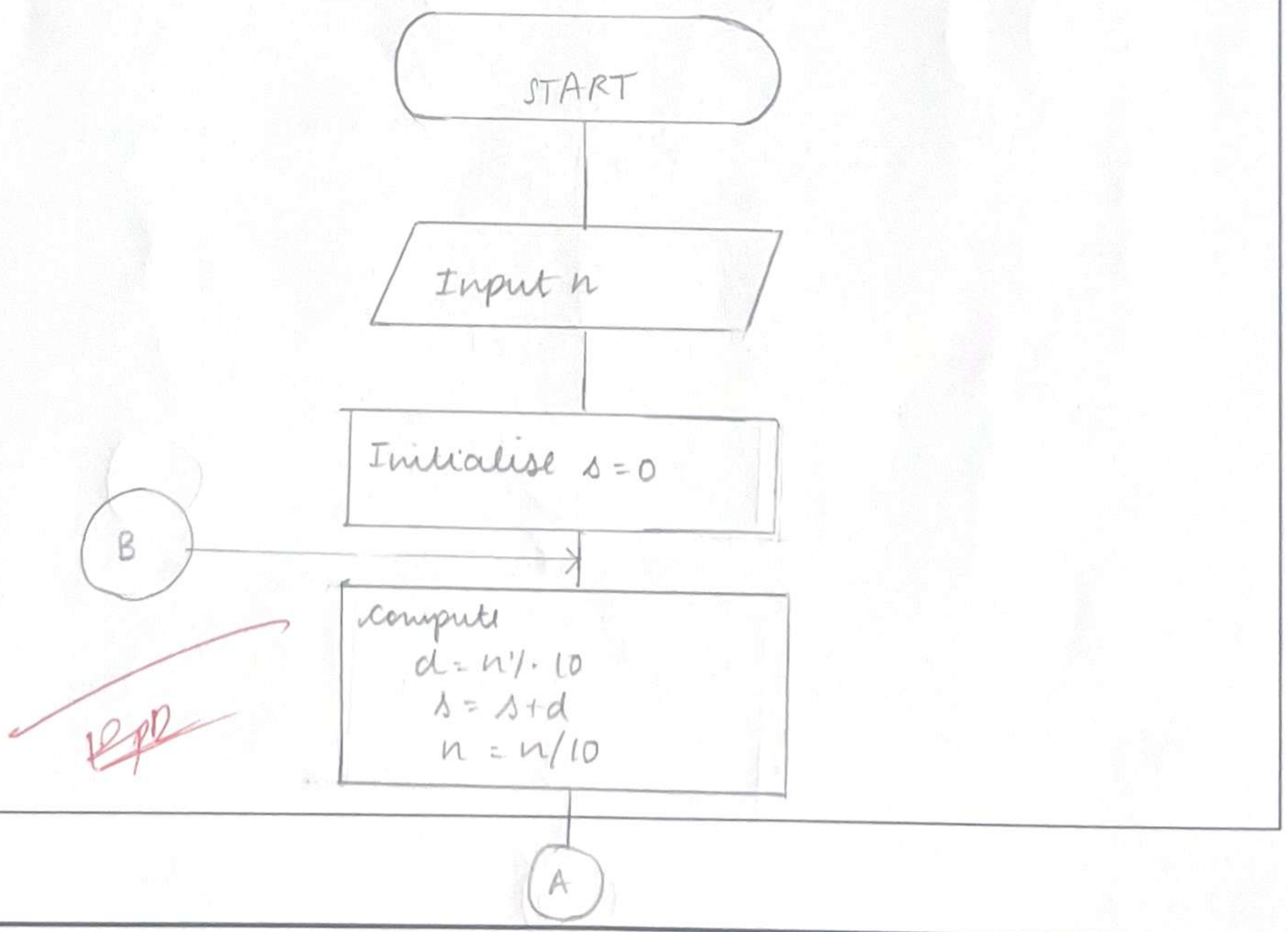
Sum of Digits

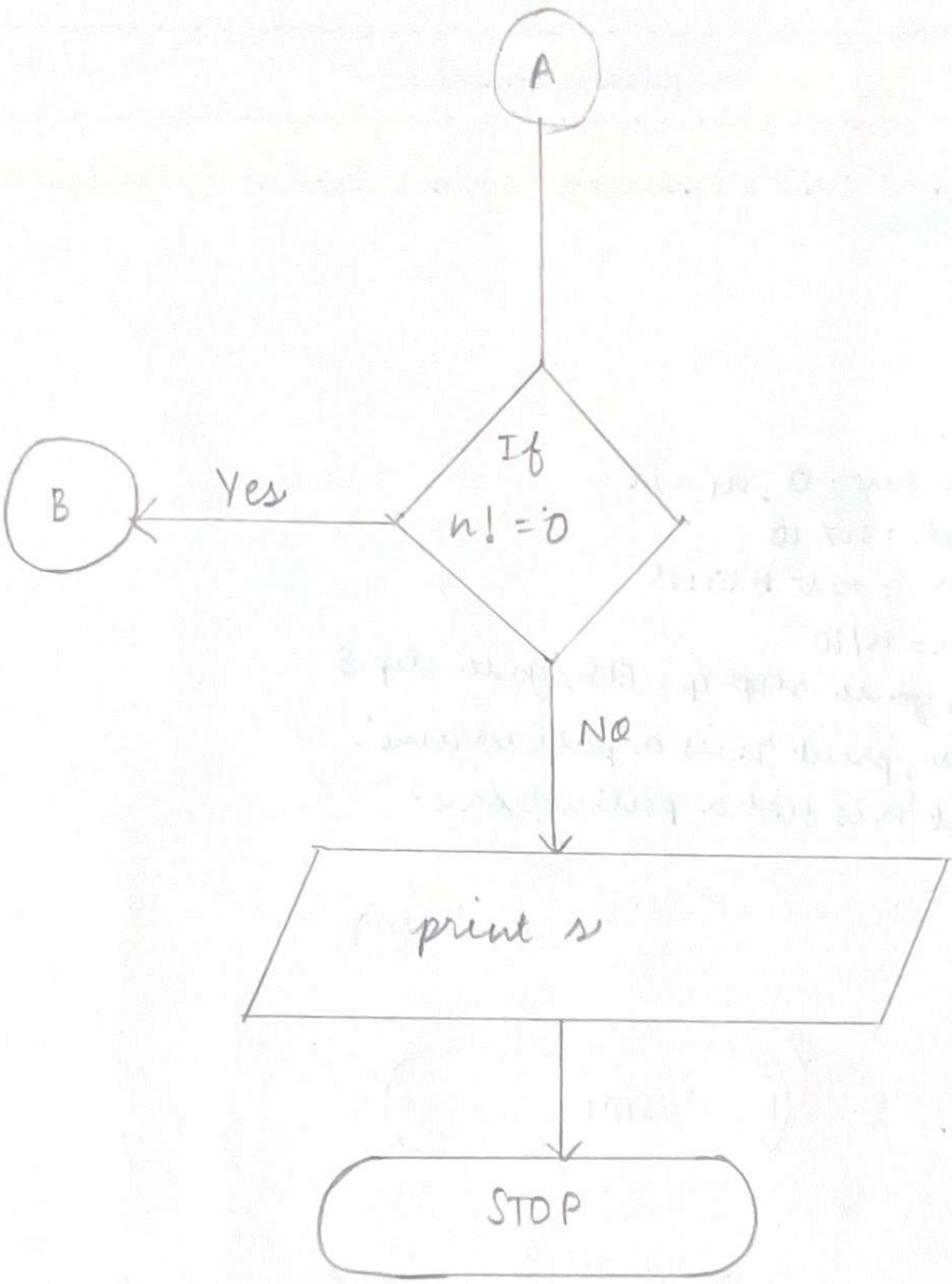
Write an Algorithm and draw a Flowchart to calculate the sum of digits in the given number.

Algorithm:

STEP 1 : Start
STEP 2 : Input n
STEP 3 : Initialise s = 0
STEP 4 : Compute d = n % 10
STEP 5 : Compute s = s + d
STEP 6 : Compute n = n/10
STEP 7 : If n != 0 , go to step 4
STEP 8 : Else , go to step 9
STEP 9 : print s
STEP 10 : Stop

Flowchart:




A
If
n! = 0
Yes
B
No
print s
STOP