Ex. No.: I

Date: 5/10/2024

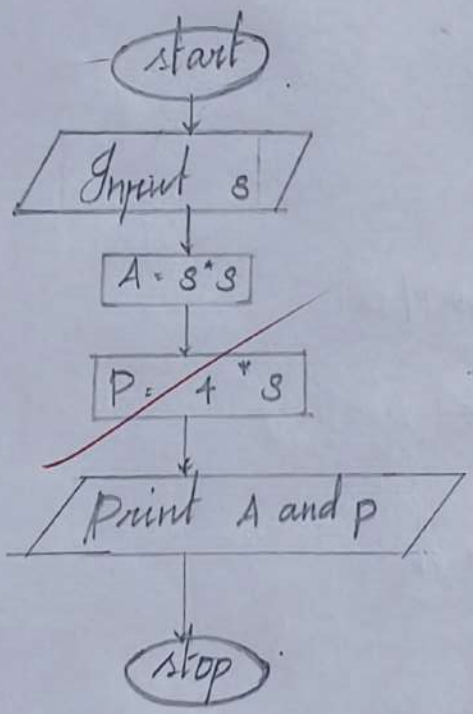
## Calculate Area and Perimeter

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

**Algorithm:**

step 1 : start.
step 2 : declare variables s, p, A.
step 3 : read s
step 4 : calculate A = s * s.
step 5 : calculate P = 4 * s.
step 6 : print A and P.
step 7 : stop.

**Flowchart:**



Ex. No.: 11 Date: 5/10/2024

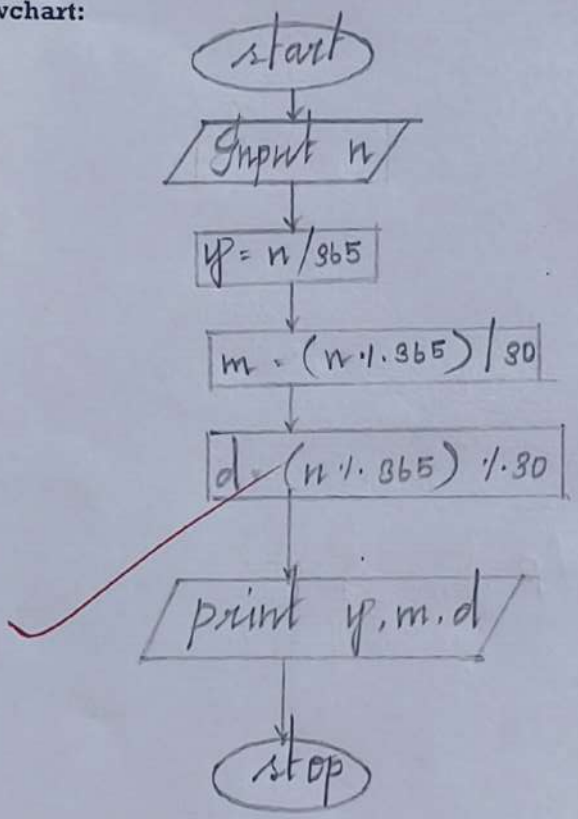
## Days to Year Conversion

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

**Algorithm:**

step 1 : start.
step 2 : Input n & declare y, m, d.
step 3 : y = n / 365.
step 4 : m = (n % 365) / 30.
step 5 : d = (n % 365) % 30.
step 6 : print y, m, d.
step 7 : stop.

**Flowchart:**



Ex. No.: III Date: 5/10/2024

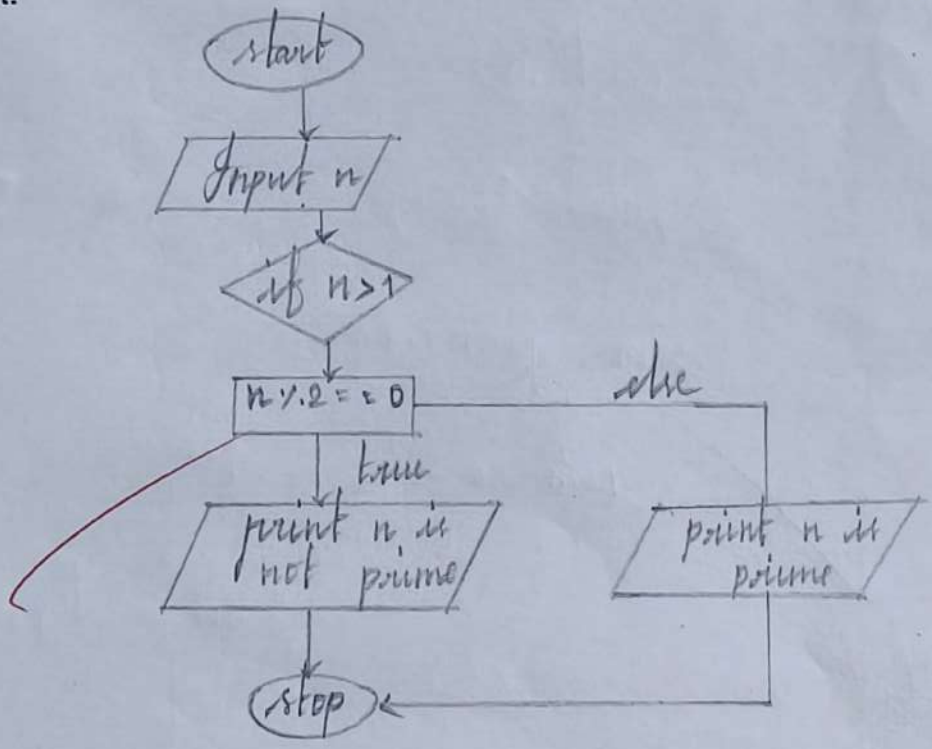
## Prime Number

**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 : If n%2==0, then n is not prime.
step 4 : for i=2 to n/2, if n%i==0, set is prime=0 and break loop.
step 5 : If is prime == 1, print 'n is prime'.
step 6 : Otherwise not prime, and stop.

**Flowchart:**



Ex. No.: IV Date: 5/10/2024

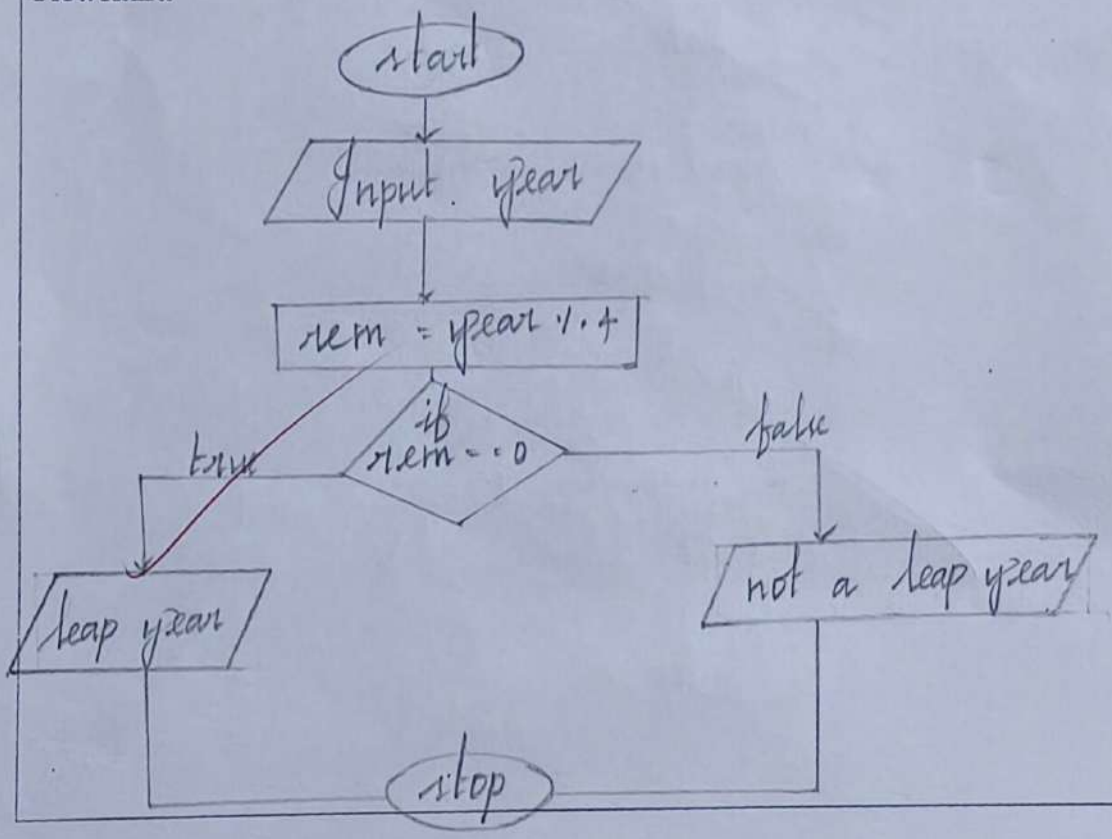
## Leap Year

**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.
step 3 : rem = year % 4.
step 4 : if (rem == 0) then print leap year.
step 5 : else not a leap year.
step 6 : stop.

**Flowchart:**



Ex. No.: V

Date: 5/10/2024

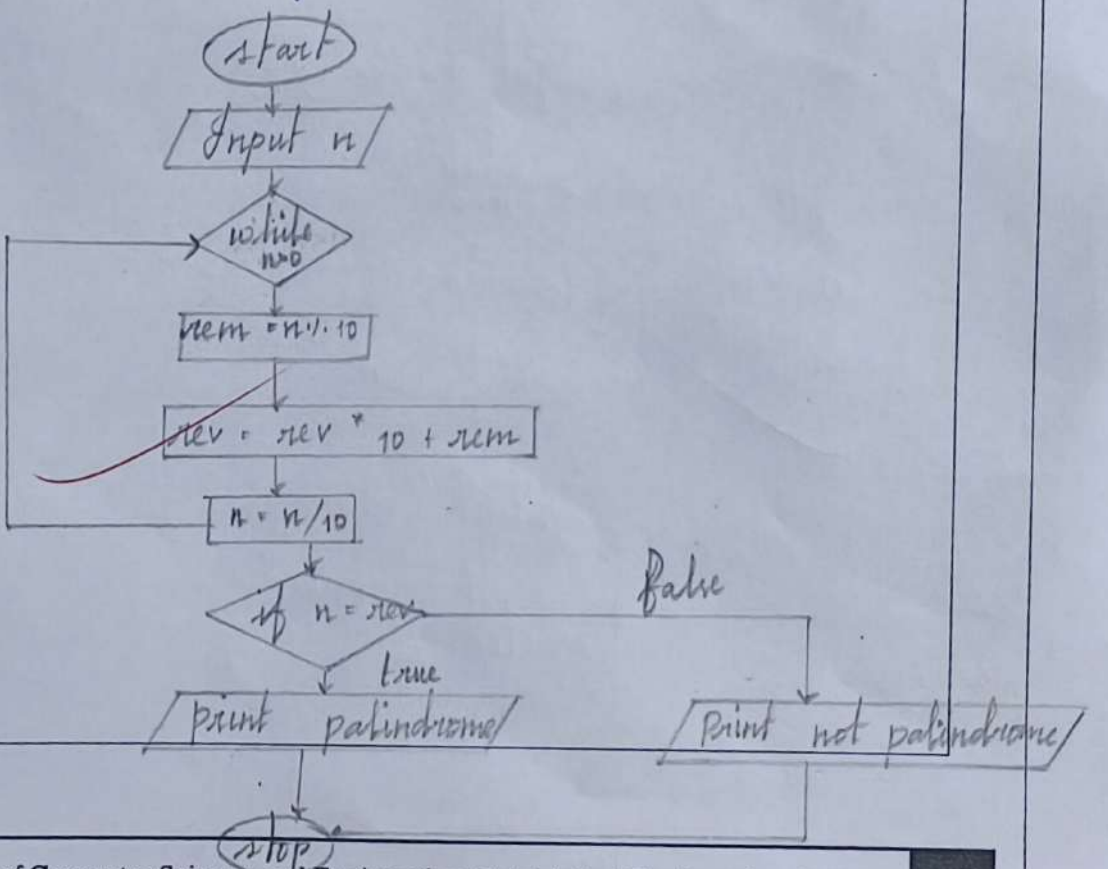
## Palindrome Number

**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, temp = n, rev = 0.
step 3 : rem = n % 10
step 4 : rev = rev * 10 + rem,
n = n/10
step 5 : If (n > 10), go to step 4.
step 6 : if temp == rev then palindrome.
else not palindrome.
step 7 : stop.

**Flowchart:**



Ex. No.: VI Date: 5/10/2024

## 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. then sum=0.
step 3: rem = n%10.
sum += reminder.
n = n/10.
step 4: if (n>0) then repeat step 3.
else goto step 5.
step 5: print sum.
step 6: stop.

**Flowchart:**