# Calculate Area and Perimeter

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

## Algorithm:

Step 1: Input side of square

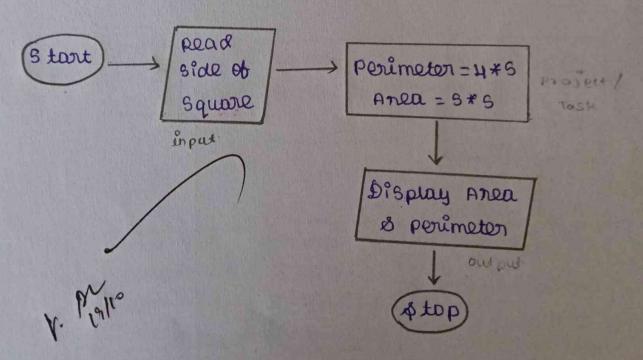
Step 1: Multiply side by 4 to get the perimeter

Step 3: Multiply side by side to get the area

Step 4: Output area & & perimeter of the square

Step 5: Atop

#### Flowchart:



Date:

## Days to Year Conversion

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

## Algorithm:

step 1: Input the total number of days

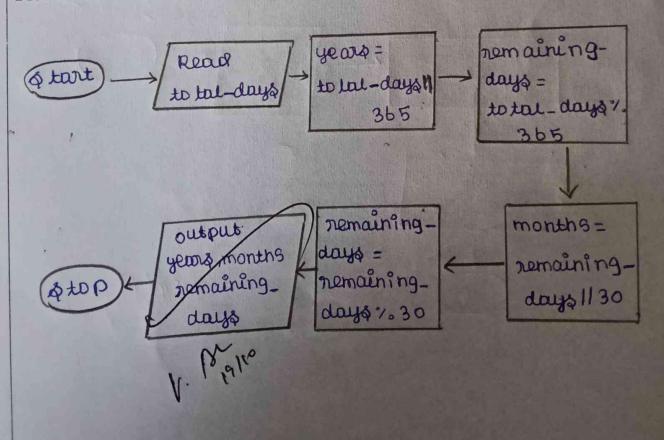
Step 2: Define some costants such as days in a year to 365 and days in month to 30

Atlp 3°, Calculate years by dividing input by 365 and remaining days by using modulus function.

step 4 : Calculate months by dividing input by 30 and remaining days by using modulus function.

Step 5 : out put years & months

Flowchart: & stop



Date:

#### Prime Number

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

## Algorithm:

step 1: Input a number n

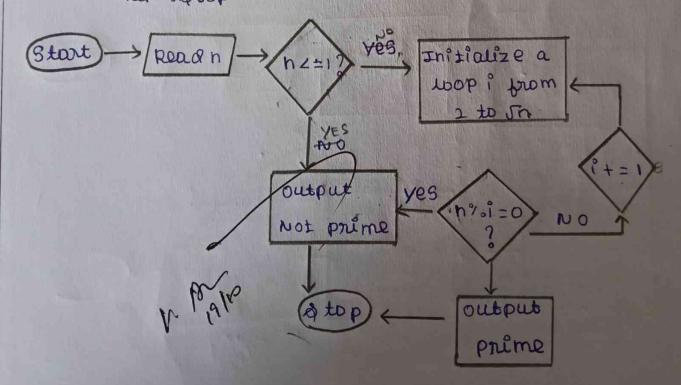
step 2: Initialize i=2

\$tep 3: Check whether the number is less than or equal to 1. If true . 90 to step 3. otherwise 90 to 9 tep 3.

Step 4 ° set a loop ranging from 2 to the root value of no If n% i equals 0, go to step \$1/

Step 5 : Output Not prime

Flowchart: Stept: Increament the value of i by step step



#### Leap Year

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

## Algorithm:

step 1: Input number of days n

\$ tep 2: If n>366, go to step 6

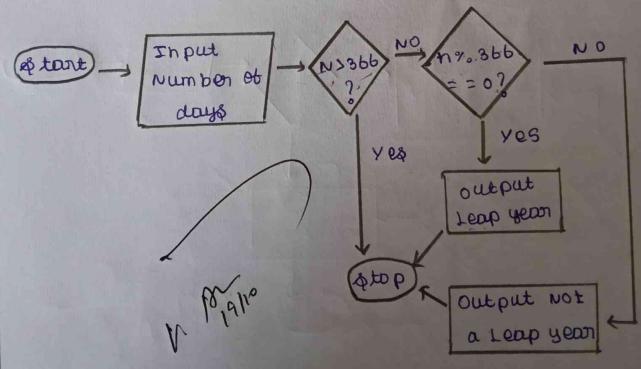
Step 3: check whether n%, 366 = 0. If True, 90 to step 4 otherwise go to step 5

\$tep 4: Out put "Leap year"

otep 5: Out put "not a Leap year"

atepb: atop

#### Flowchart:



## Palindrome Number

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

# Algorithm:

step 1: Input a number n

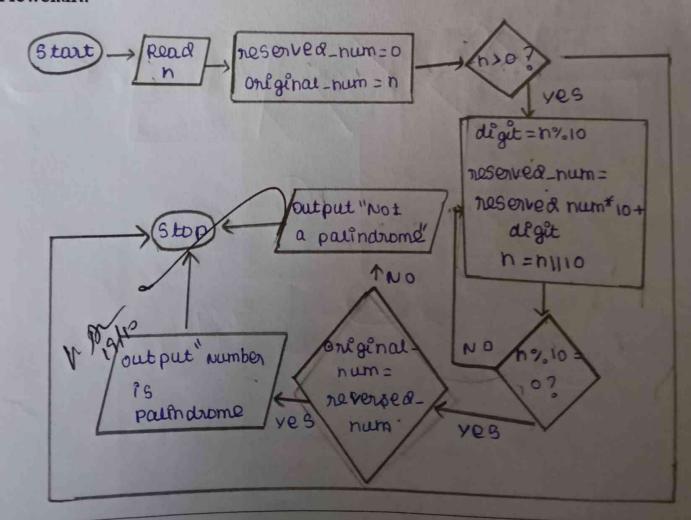
otep1: Initialize received\_num to o and original num to n

otep3: If nso, go to step 4. otherwise go to step 6

Step 4: Jet digit = n% 10 and neversed -num = neversed -nim 10 + digit oThen update n= n1110 . Repeat the process untill

Step 5; Check whether original-num = = reversed-num = If true, Print "Number is palindrome" otherwise print "Number is not norme".

Flowchart: \$ \$ top



# Sum of Digits

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

# Algorithm:

step 1 : pead a number n

step 2: Initialize Sum = 0

Step 3: check whether n>0. If true go to Step 4 otherwise go to Step 6

Step 4: set digit = n%10. Update Sum = Sum + digit. Update h=n/110. Repeat the process untill n%10 = = 0

steps: output sum

step 6: stop

## Flowchart:

