Ex. No.: 1 **Date:** 6/6/24

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 : Read side

Step 3 : Area = side * side

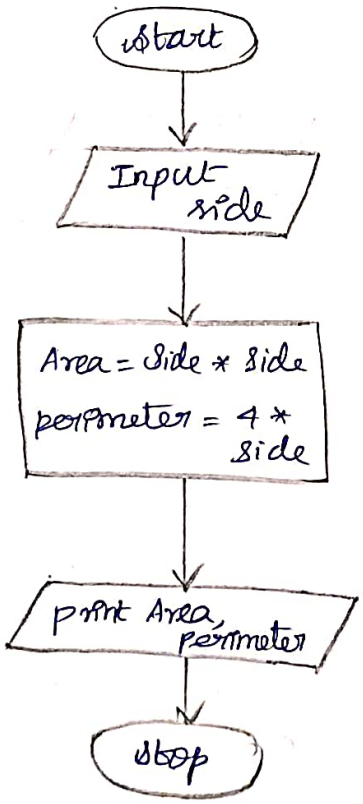
Step 4 : Perimeter = 4 * side

Step 5 : Print Area

Step 6 : print perimeter

Step 7 : stop

Flowchart:



Ex. No.: 2 **Date:** 10/10/24

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 total no of days

Step 3 : years = total no. of days div 365

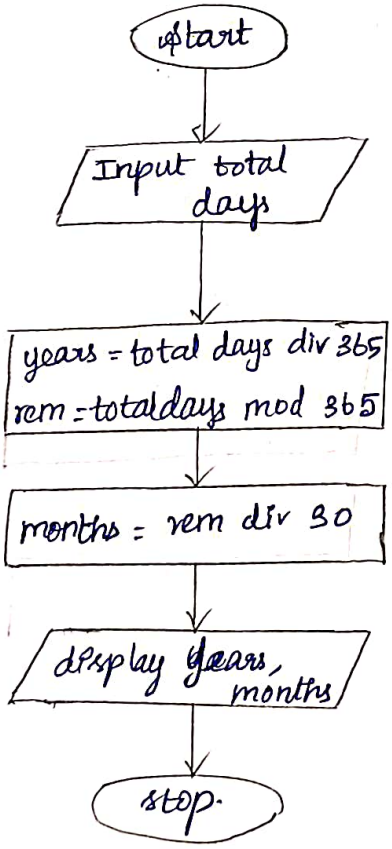
step 4 : rem = total no. of day mod 365

Step 5 : months = rem div 30

step 6 : display years, months

Step 7 : stop

Flowchart:



Ex. No.: 3 **Date:** 10/10/24

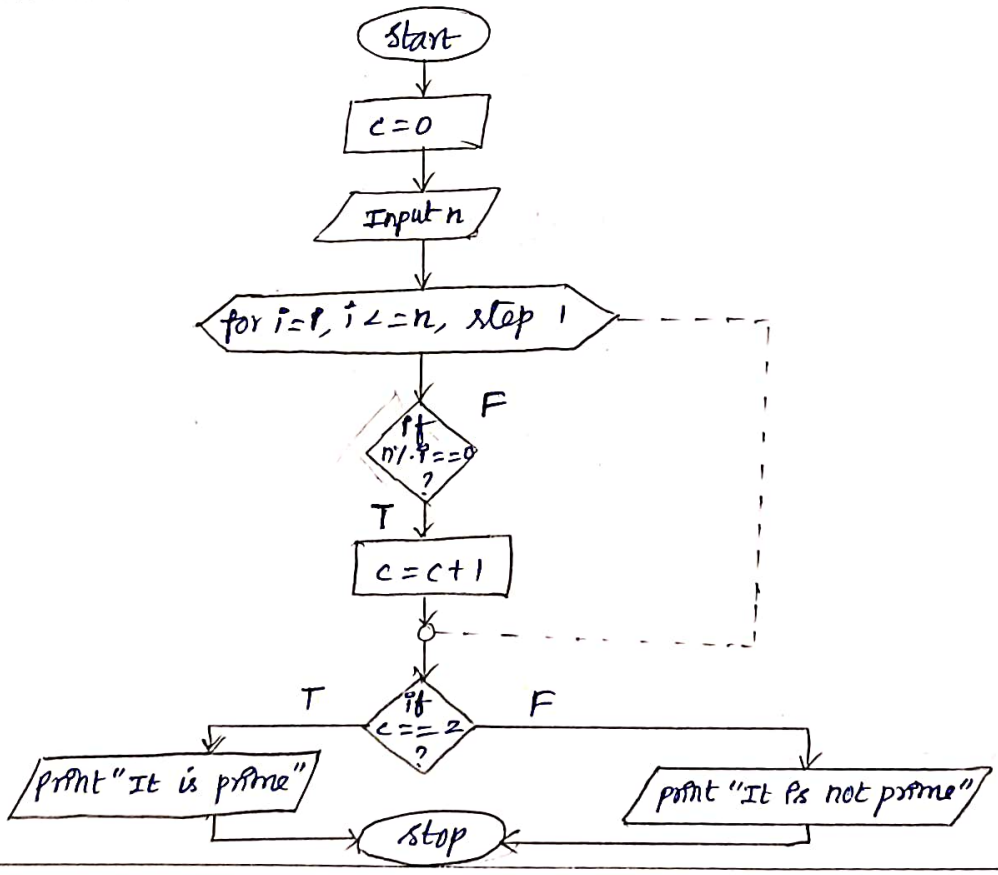
Prime Number

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

Algorithm:

step 1 : start
step 2 : print "Enter the number"
step 3 : read n
step 4 : set a=2
step 5 : if (a <= n-1) then
if (n %. a == 0) then goto step 5
else a=a+1 goto step 5
end if
else print n "Is prime" goto step 7
end if
step 6 : print n "Is not prime"
step 7 : stop

Flowchart:



Ex. No.: 4 **Date:** 10/10/24

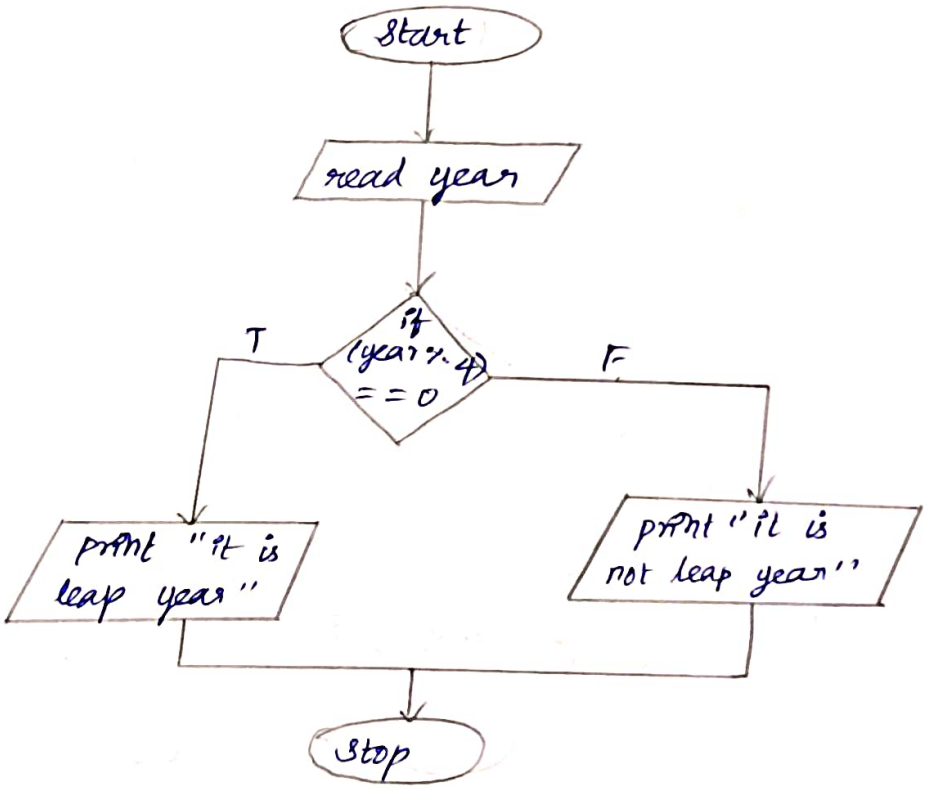
Leap Year

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

Algorithm:

step 1 : start
step 2 : read year
step 3 : rem = year mod 4
step 4 : if (rem == 0) then
print "leap year"
else
print "not a leap years"
step 5 : stop

Flowchart:



Ex. No.: 5 **Date:** 10/10/24

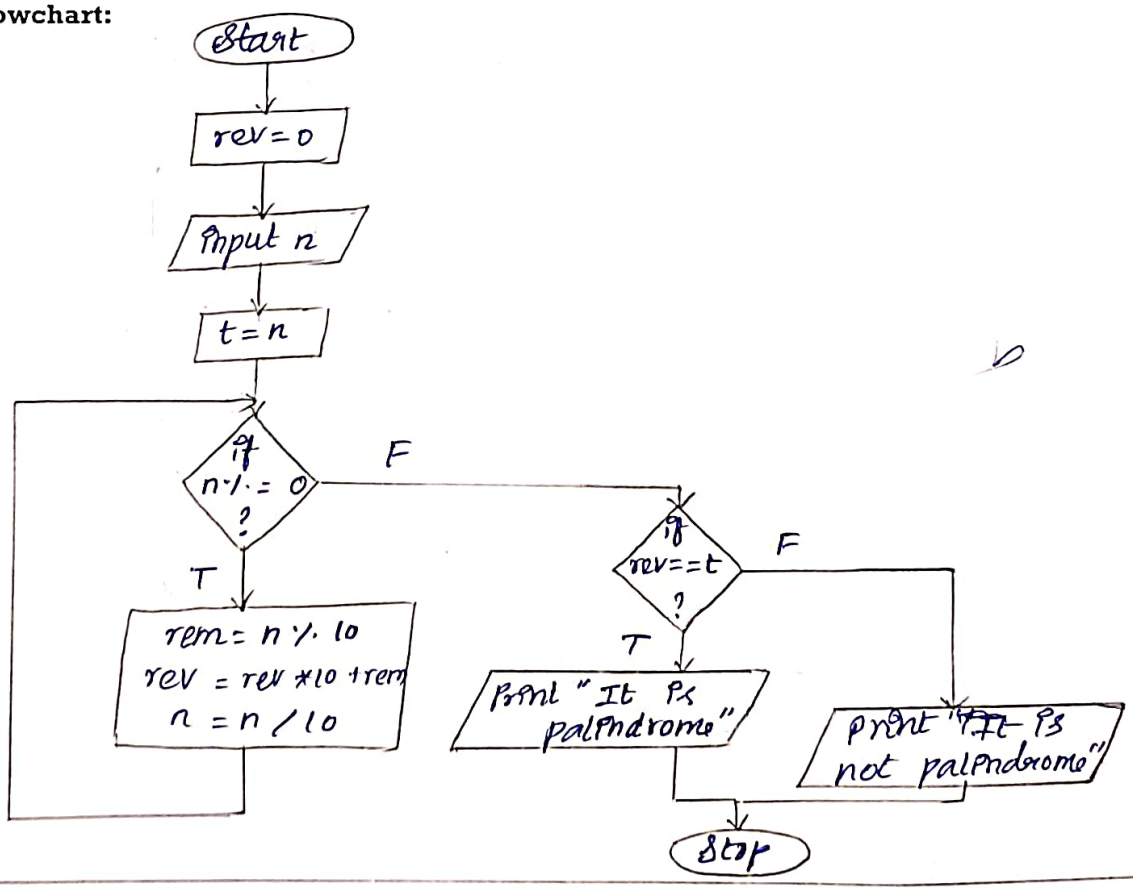
Palindrome Number

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

Algorithm:

step 1 : start
step 2 : Read n
step 3 : declare temp = n, rev = 0
step 4 : rem = n % 10
step 5 : rev = rev * 10 + rem
step 6 : n = n / 10
Step 7 : If (n > 0) then goto steps 4 to 6 else goto step 8
step 8 : If (temp == rev) then print " palindrome no "
else print "not palindrome no"
step 9 : stop

Flowchart:



Ex. No.: 6 **Date:** 06/10/24

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 : Read n

step 3 : declare sum = 0

step 4 : rem = n % 10

step 5 : sum = sum + rem

step 6 : n = n / 10

step 7 : if (n > 0) then go to step 4 to 6
else goto step 8

step 8 : print sum

step 9 : stop.

Flowchart: