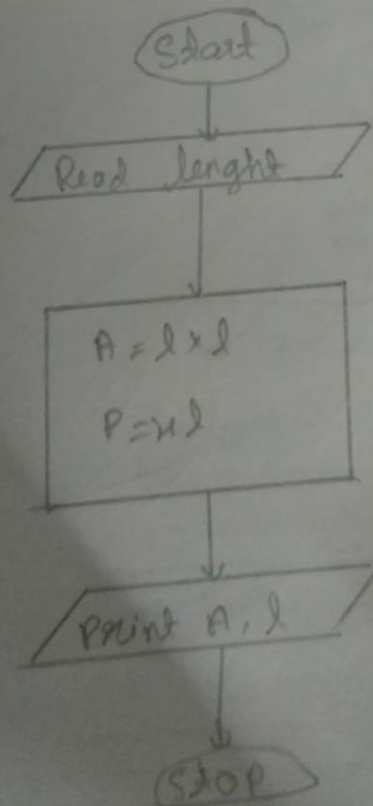


Exp. No: 1

write an algorithm and draw a flowchart to calculate the area and perimeter of a square

Algorithm:

- Step 1: Start
- Step 2: Read length
- Step 3: calculate $A = l \times l$
 $P = 4 \times l$
- Step 4: print A, P
- Step 5: Stop.



Exp. No: 2

Write an algorithm and draw a flowchart to convert the given days into years and months.

Algorithm:

Step 1: Start

Step 2: Input days

Step 3: $\text{Total} = \text{days} / 365$

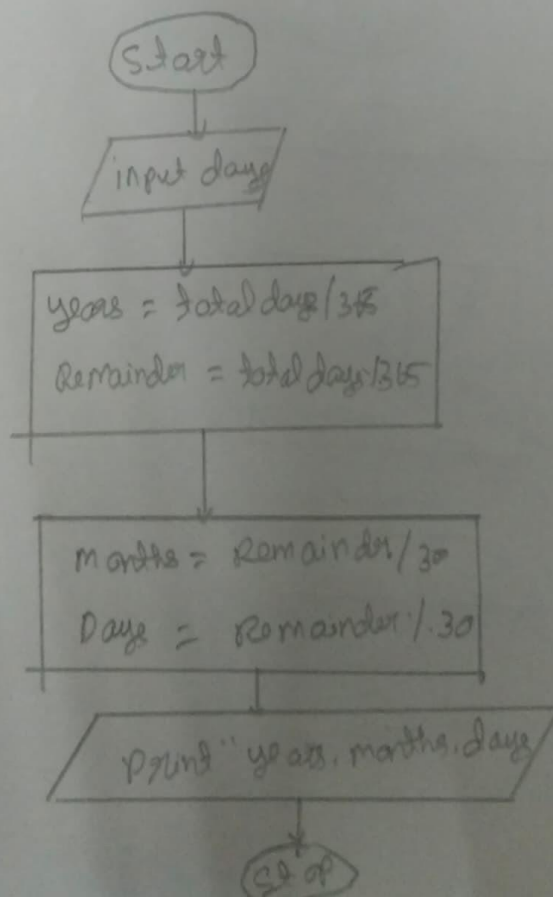
Step 4: $\text{Remainder} = \text{Total} \% 365$

Step 5: $\text{months} = \text{Remainder} / 30$

Step 6: $\text{Days} = \text{Remainder} \% 30$

Step 7: Print 'years, months, days'

Step 8: Stop.



Ex-no:3

Write an algorithm and draw a flowchart to check whether the given number is prime or not:

Step 1: Start

Step 2: Read n

Step 3: Set $f = 1$

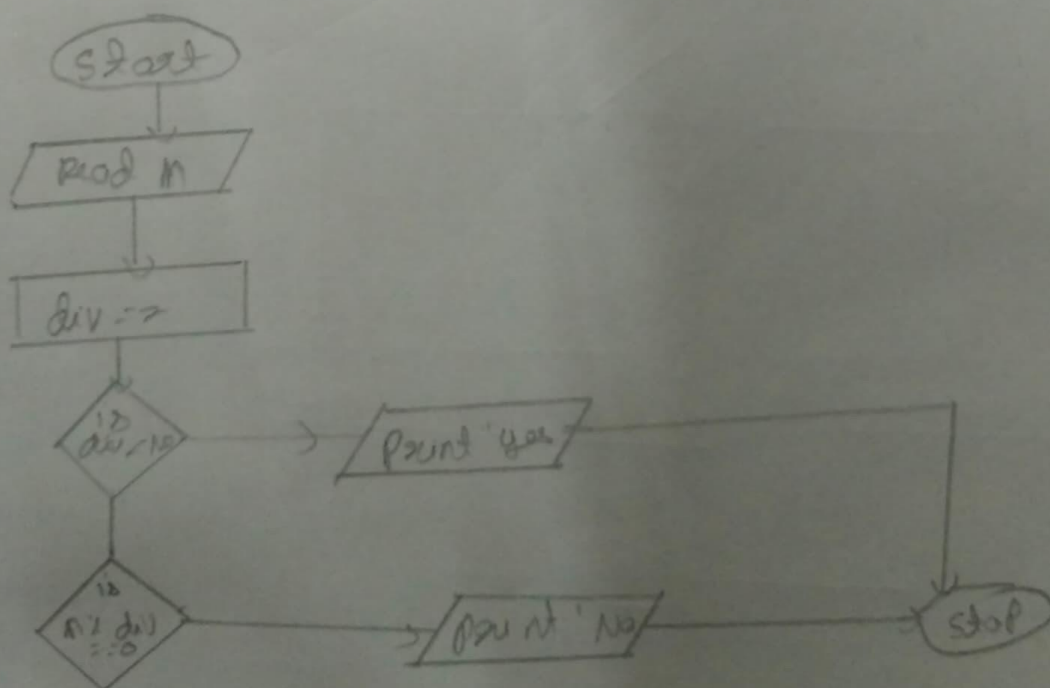
Step 4: If $n = 1$ then print " n is not prime number" go to step 8

Step 5: For $i = 2$ to $n - 1$

Step 6: If $n \% i == 0$ then set $f = 0$ and break else go to step 5

Step 7: If $f == 1$ then print " n is not prime number" else print " n is prime number"

Step 8: Stop



Exp no: 4

write an algorithm and draw a flowchart to check whether the given year is leap or not.

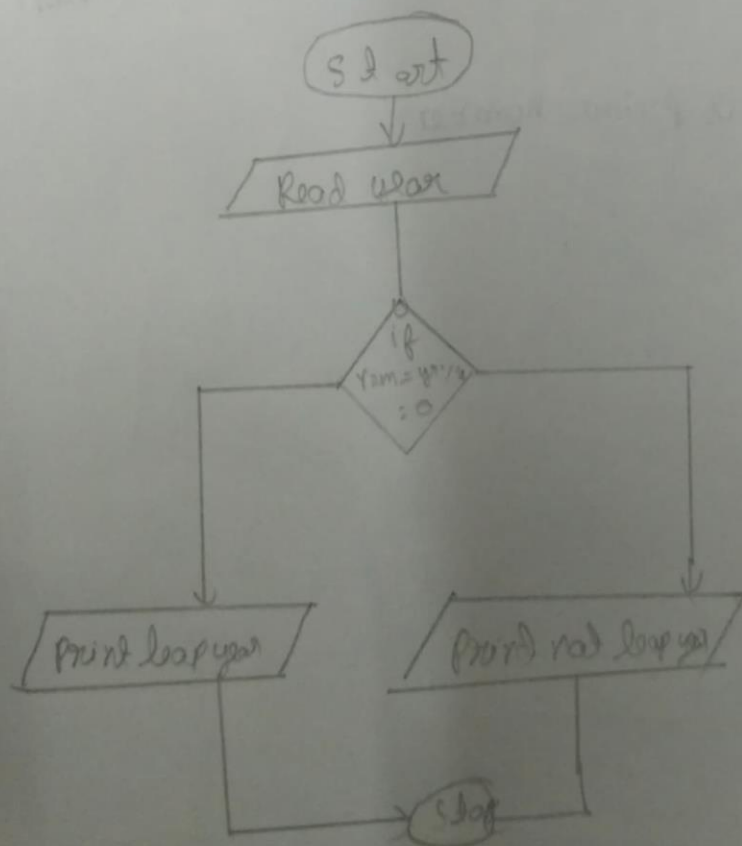
Step 1: Start

Step 2: Read year

Step 3: Remainder = year % 4

Step 4: if (Rem == 0) then
 print " leap year"
else
 print " not leap year"

Step 5: Stop



Write an algorithm and draw a flow chart to check whether the given number is palindromic number or not.

Step 1: Start

Step 2: Read n

Step 3: Set original = n and reversed = 0.

Step 4: while $n > 0$

• Set $digit = n \% 10$

• update reversed = $reversed \times 10 + digit$

• update $n = n / 10$

Step 5: if original == reversed

print palindromic

else
print not palindromic

Step 6: Stop

Exp. no: 6:

write an algorithm and draw a flow chart to calculate the sum of digit in the given number.

Step 1: Start

Step 2: Get 'n'

Step 3: Initialize $Sum = 0$

Step 4: check $n > 0$ true go to Step 5.

Step 5: $Sum = Sum + (n \% 10)$

Step 6: $n = n // 10$, go to Step 4

Step 7: print "Sum"

Step 8: Stop.

