Ex. No.: I

Date: 2119 124

Calculate Area and Perimeter

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

Algorithm:

step 1: stout

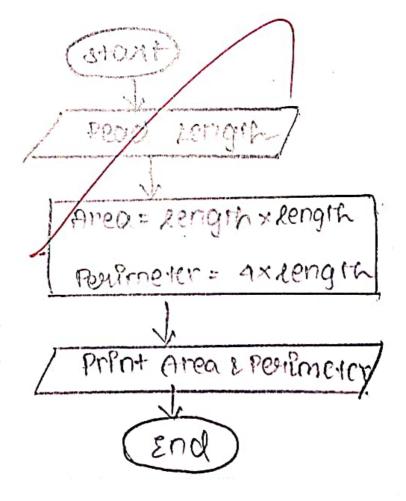
step 2'. Get the length of one side of square

as x

step 3: Area = xxx

step 4: perimeter = 4 * x step 15: print area 8 perimeter

step 6: stop



Ex. No.:

Date: 2119124

Days to Year Conversion

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

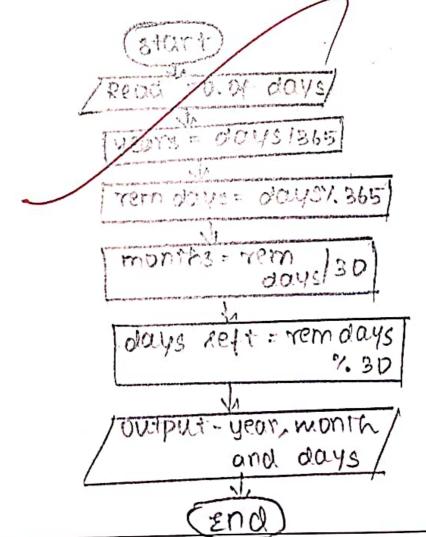
Algorithm: 1: staut

step 2. Get total days

8tep 3: compute years = Total days /365 step 4: compute Remaining days = Total days%365 step 5: compute Months = Remaining days 130 step 6: compute days = Remaining days%30

step 7: prent years, months, days

step 8: stop.



Ex. No.:

Date: 2119124

Prime Number

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

```
Algorithm: 1: Stort
   step 2: Get number oc
   step 3: set count = 0, i=0
   step 4: \ell = \ell + 1
step 5: If \ell \leq n, ornerwise go to 8
step 6: If n \% \ell = 0
    step 7: Increment count by 1, goto 4
    step 8: If count=2, print, prime, goto 10
    step a: print n is not prime
Step 10: Stop.
                      (810Hi
                  Read the number/
                          erro = 0, Interacte for
                                        Return Num is
                                          not prime
                            Yes
                     Return Num is
                            prime
```

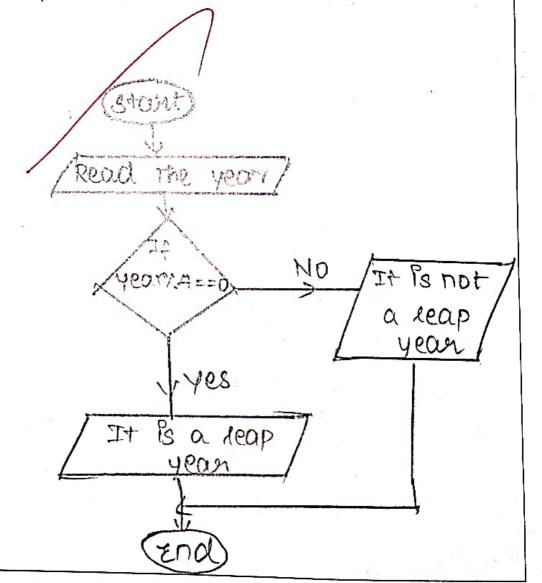
Ex. No.: 1

Date: 25/9/24

Leap Year

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

Algorithm:



Palindrome Number

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

Algorithm:

step 1! start the process

step 2! Read the number n

step 3: Initialize original=n and reversed=0

step4: while n>0, set digit= n mod 10, update

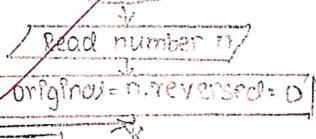
reversed = reversed x 10+ digit, update n = n+10

step 5: If original = reversed, print "Palindrome"

else print "Not palindrome"

step 6! End The process.

Flowchart:



digit= n7.10

R= Rx10+digit

original=original/10

NO original reversed

Palled rome / NOT Poulindrome

Ex. No.: V)

Date: 25/9/24

Sum of Digits

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

Algorithm:

step 1: start.

stepa: Read num

step 3: sum = 0

step 4: If num>0, otherwise print sum

step 5: rem = num % \$ 10

sum = sumtrem

num = num/10

step 6: stop.

