

Ex. No.: |

Date: 27.9.24

Calculate Area and Perimeter

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

Algorithm:

Step 1: start

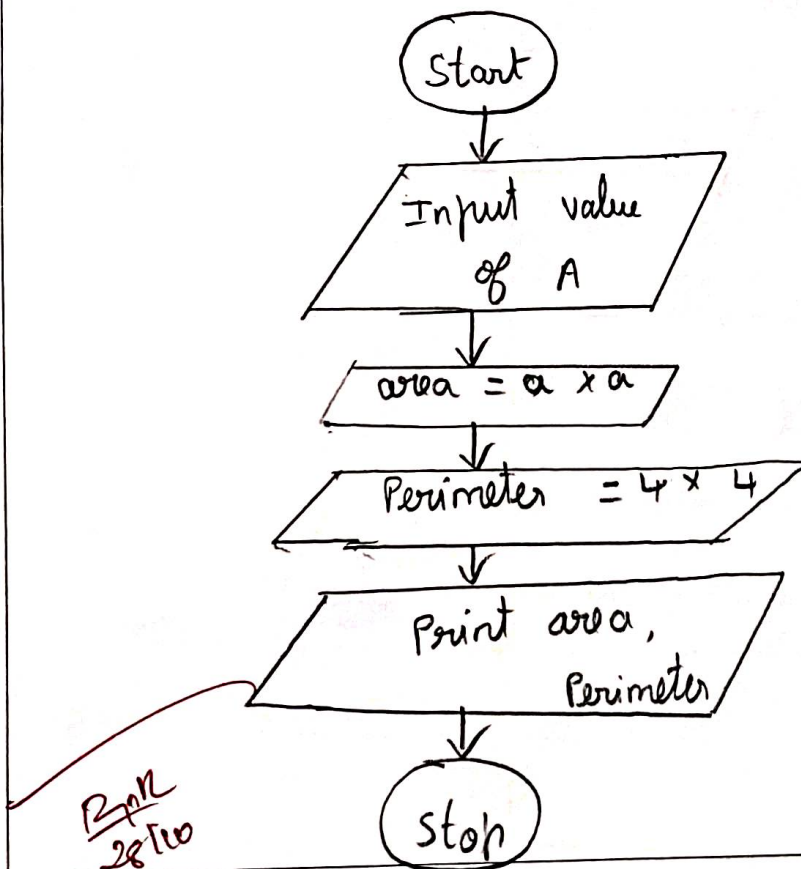
Step 2: Read the one side of square

Step 3: calculate $a \times a$ and assign the value to a

Step 4: $4 \times a$ and assign the value to b

Step 5: Print the value 'a' as area and 'b' as Perimeter

Step 6: stop

Flowchart:

Date: 27/7/24

Ex. No.: 2

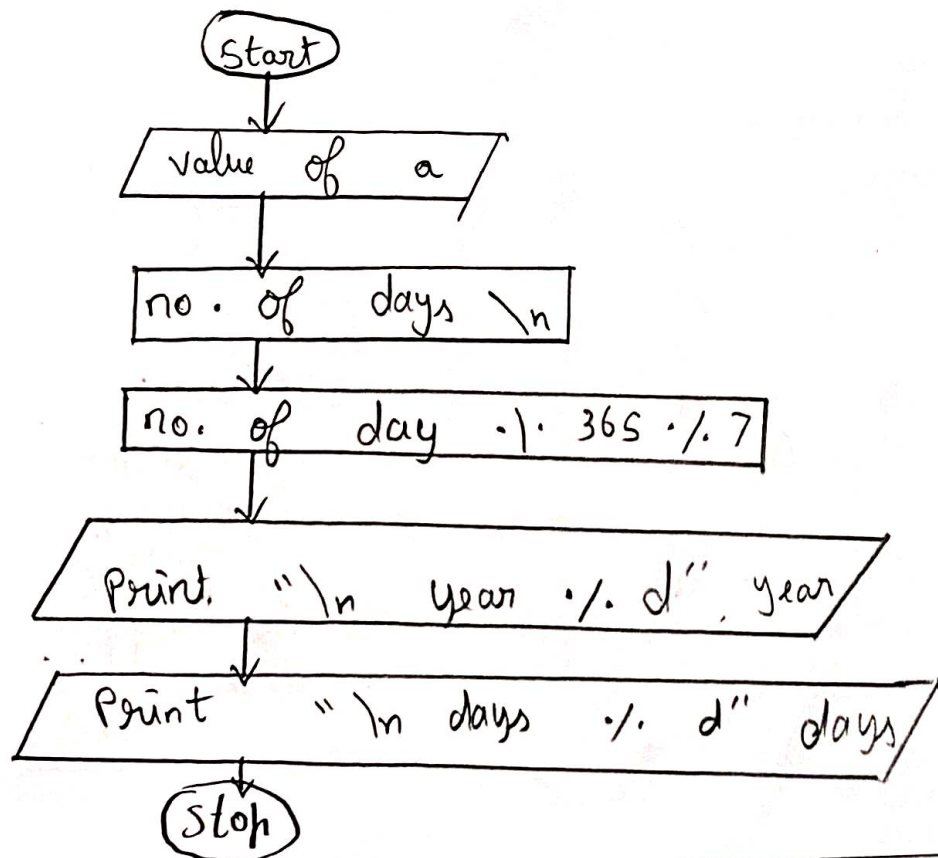
Days to Year Conversion

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

Algorithm:

- Step 1: Start, Read the value a
 Step 2: Enter a number of day \n
 Step 3: no. of day \ 365 %/
 Step 4: no. of day %/ 365 %/ 7;
 Step 5: Print "\n years %/ d", year
 Step 6: Print "\n Day %/ d", day
 Step 7: Stop

Flowchart:



Ex. No.: 3

Date: 1/10/24

Prime Number

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

Algorithm:

Step 1 : Read the value 'n'

Step 2 : Enter a positive integer ;

Step 3 : if (n is equal 0, n is equal 1, Flag=1)

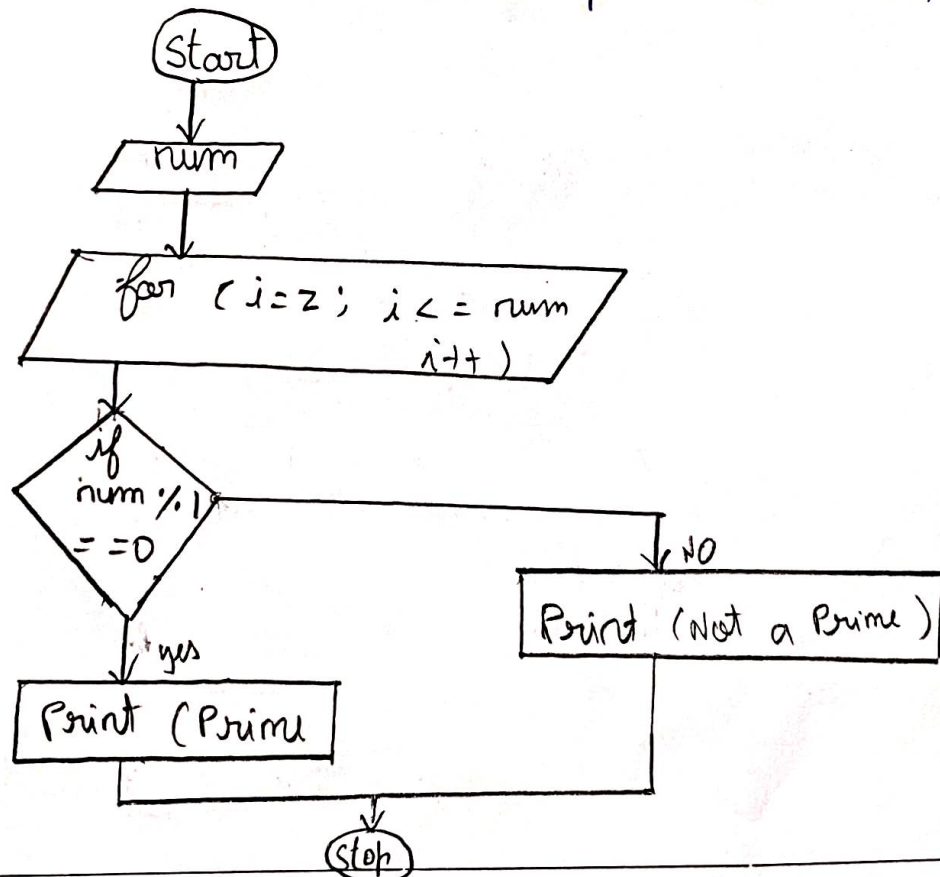
Step 4 : For i equal to 2, i is less than
equal $n/2$, ++i

Step 5 : if n percentage i is equal to 0
Flag = 1

Step 6 : if Flag break; on stop

Step 7 : The print equal to 0 int is a prime number no 'n';

Flowchart:



2/12/24

Ex. No.: 4

Date: 22.10.24

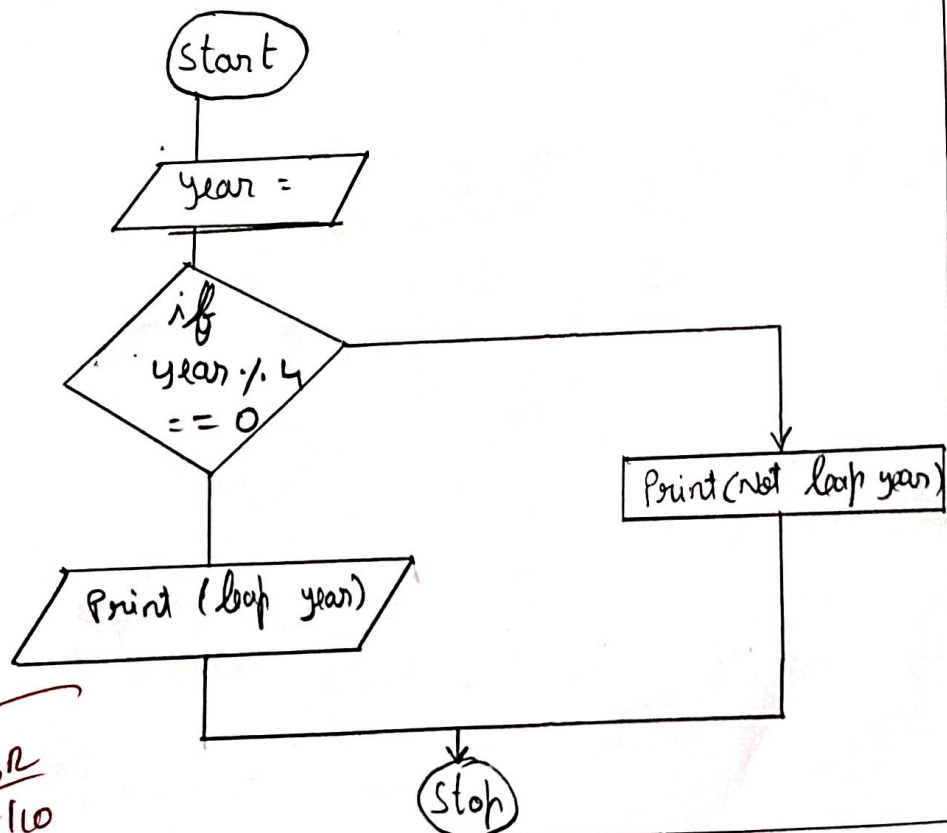
Leap Year

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

Algorithm:

- Step 1: read the year & declare variable
 Step 2: Print f(Enter year you want to checking)
 Step 3: Scan f("%d" & year);
 Store user provided input in variable
 Step 4: if (year % 400 == 0) || (year % 4 == 0) (year % 100 != 0)
 Step 5: Print f("\n given year is leap year \n")
 else {
 Step 6: Print f("\n given year is not leap year \n")
 Step 7: stop

Flowchart:



Pr
28/10

Ex. No.: 5

Date: 22.10.24

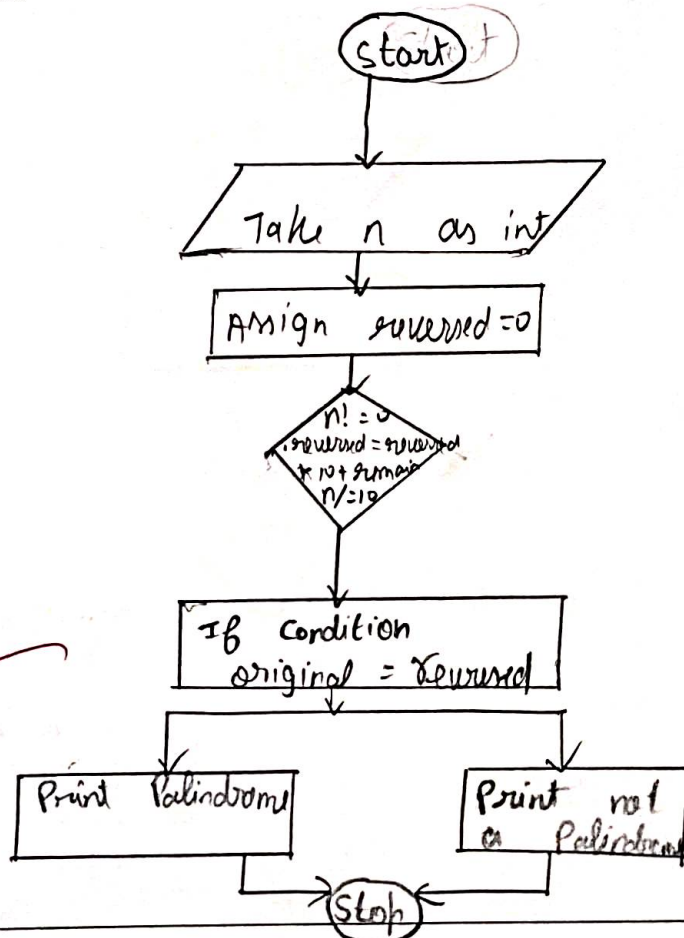
Palindrome Number

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 the input number from the user
 Step 3: Declare and initialize the variables reverse and assign input to a temp variable $\text{tempNum} = \text{num}$
 Step 4: start the while loop until $\text{num} \neq 0$ became false
 $\text{rem} = \text{num} \% 10$
 $\text{reverse} = 10 * \text{reverse} + \text{rem}$
 $\text{num} = \text{num} / 10$
 Step 5: check if $\text{reverse} == \text{tempNum}$
 Step 6: If it's true then the number is a palindrome
 Step 7: If not, the number is not a palindrome
 Step 8: stop.

Flowchart:



Ex. No.: 6

Date: 20.10.24

Sum of Digits

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

Algorithm:

Step 1: Get a number n

Step 2: Declare $sum = 0$, $remainder = 0$

Step 3: Read n

Step 4: while ($n > 0$)

Step 5: Remainder $n \% 10$

Step 6: $sum = sum + remainder$

Step 7: $n = n / 10$

Flowchart:

