

Ex. No.: ]

Date: 22-10-24

**Calculate Area and Perimeter**

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

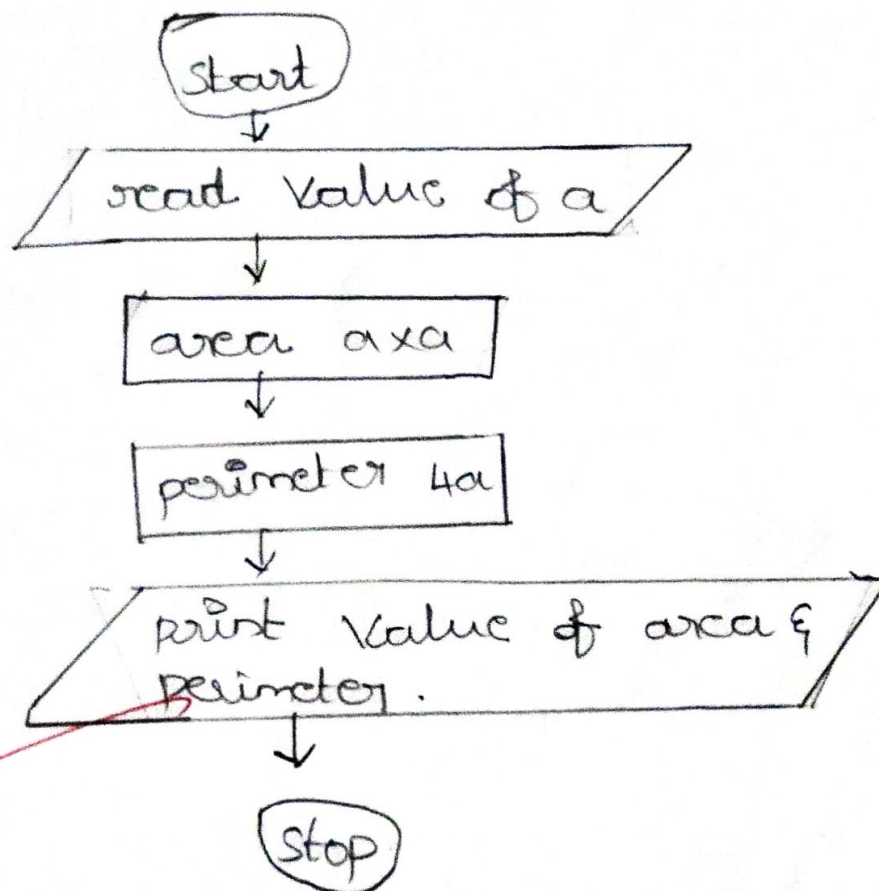
Algorithm:

Step 1: read the Value 'a'

Step 2:  $a \times a$

Step 3:  $4a$

Flowchart:



Ex. No.: II

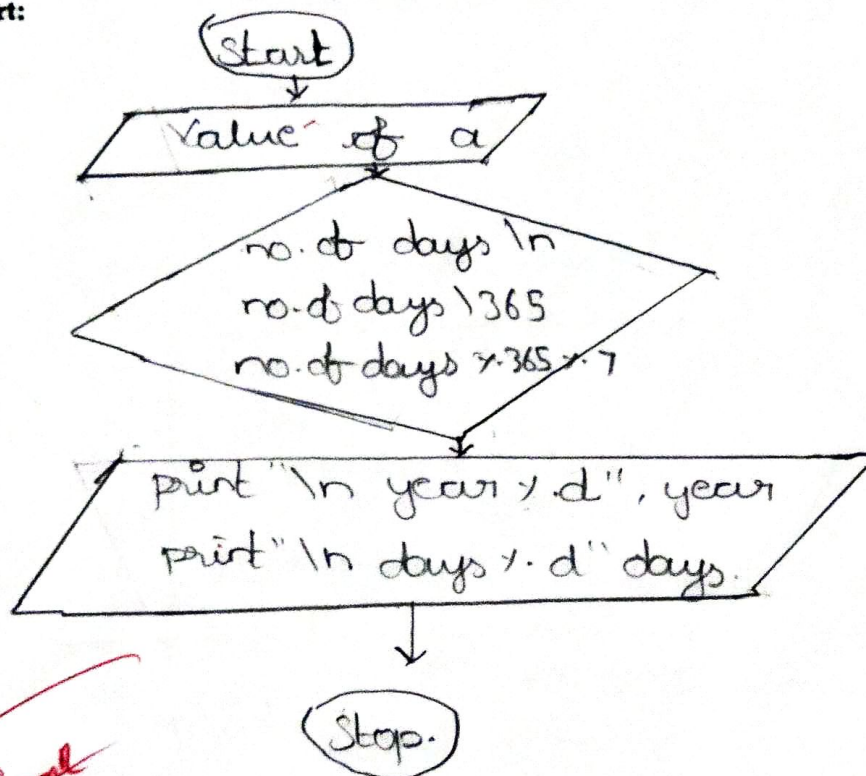
Date: 22-10-24

**Days to Year Conversion**

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

**Algorithm:**

- Step 1 : Start Read the Value 'a'  
 Step 2 : Enter a number of day in  
 Step 3 : no. of day / 365 %  
 Step 4 : no. of day % 365 % 7  
 Step 5 : "print "In years %d", year  
 Step 6 : "print "In Day %d", days.  
 Step 7 : Stop.

**Flowchart:**



Ex. No.: 03

Date: 22-10-24

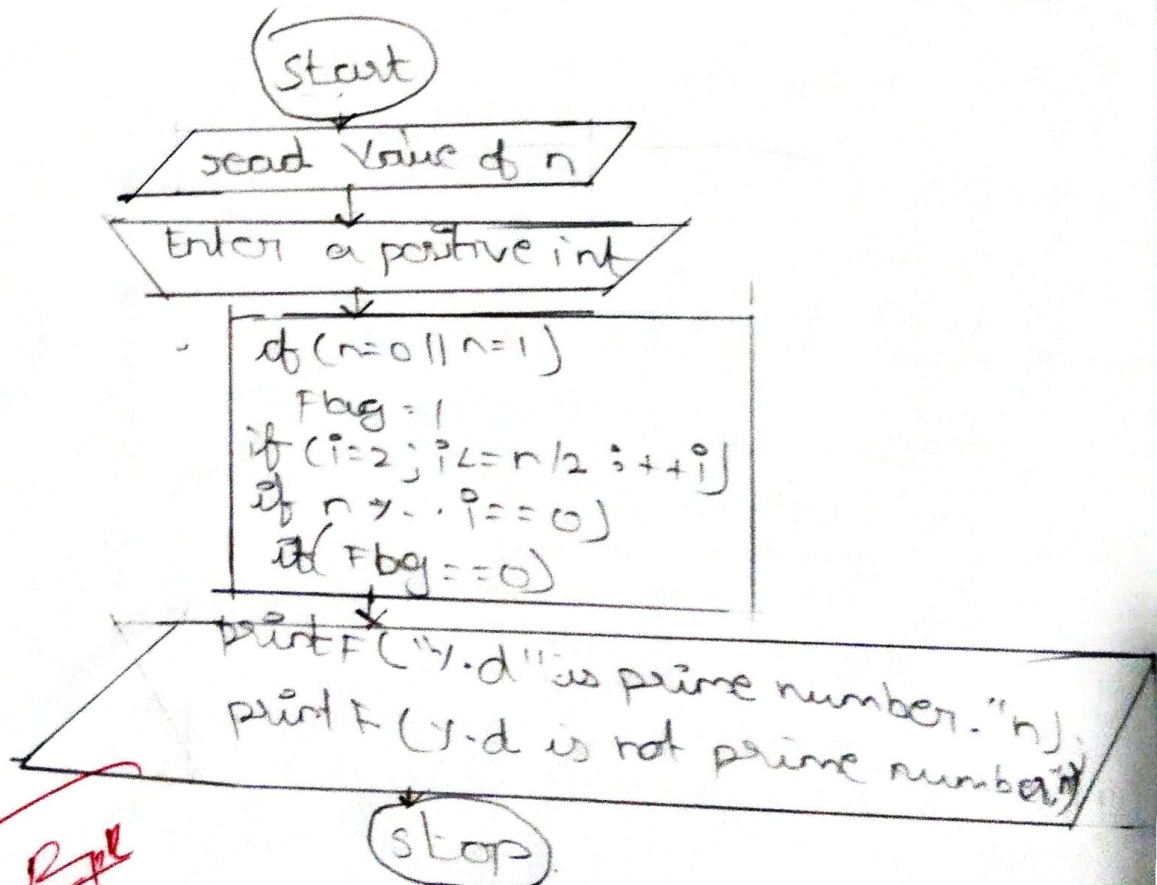
## Prime Number

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

## Algorithm:

- Step 1: Start  
 Step 2: Read the input number from the user.  
 Step 3: if  $n$  is equal to 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,  $flag = 1$   
 break ; or Step  
 Step 6: if  $flag$  equal to 0  
 Step 7: If  $n$  print 'int prime number  $n$ '.  
 otherwise Print 'd is a not prime no return.'

## Flowchart:



Ex. No.: 04

Date: 22-10-24

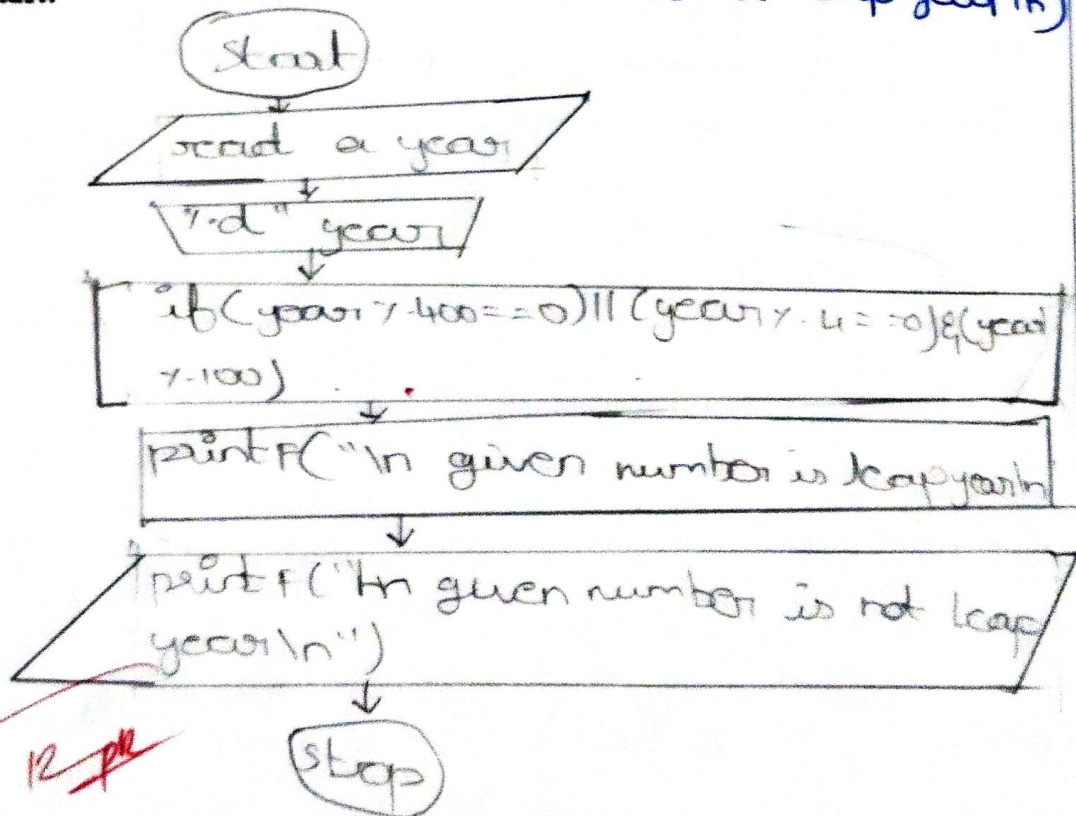
## Leap Year

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 Variables.  
 Step 2: printf("Enter year you want to check").  
 Step 3: scanf("%d", &year);  
           Store user provided input in Variables year  
 Step 4: if (year % 400 == 0) || (year % 4 == 0 & year % 100 != 0);  
 Step 5: printf("In given year is leap year\n");  
 Step 6: printf("In given year is not leap year\n");

## Flowchart:





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Ex. No.: 03

**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

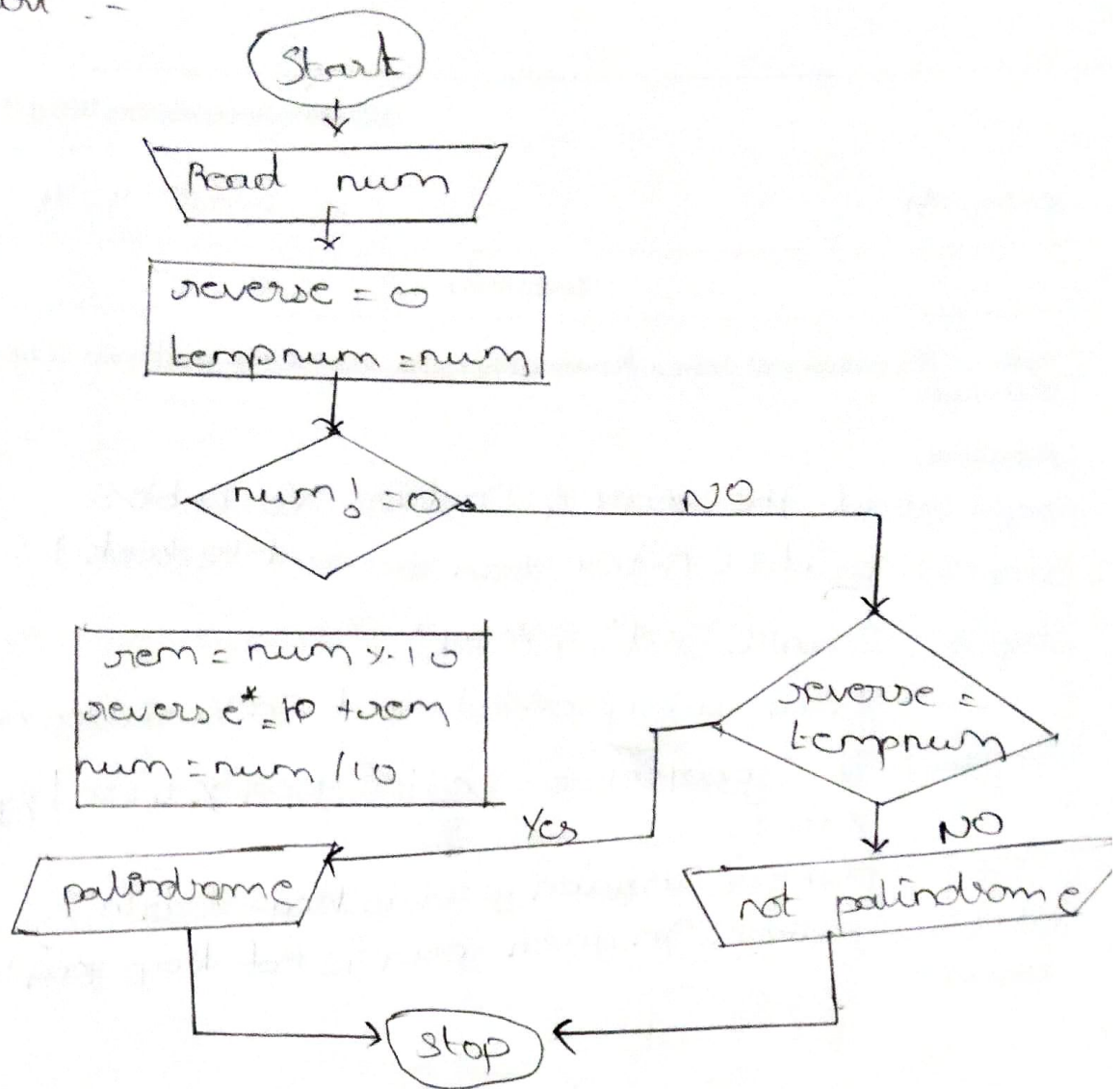
Step 3: assign input to temp variable  $tempNum = Num$ Step 4: while loop until  $num \neq 0$  because false $rem = num \% 10$  $reverse = 10 + rem$  $num = num / 10$ Step 5: check if  $reverse == tempNum$ ,

Step 6: If its true then its palindrome, If not, then its

Flowchart: not palindrome.

PPL

Flowchart :-



Ex. No.: 06

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**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 : Declare Sum to 0  
step 3 : Read num 1  
step 4 : Read num 2  
step 5 : Add num 1 and num 2  
step 6 : print Sum  
step 7 : stop

**Flowchart:**