Ex. No.: 1

Date: 22-10-24

Calculate Area and Perimeter

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

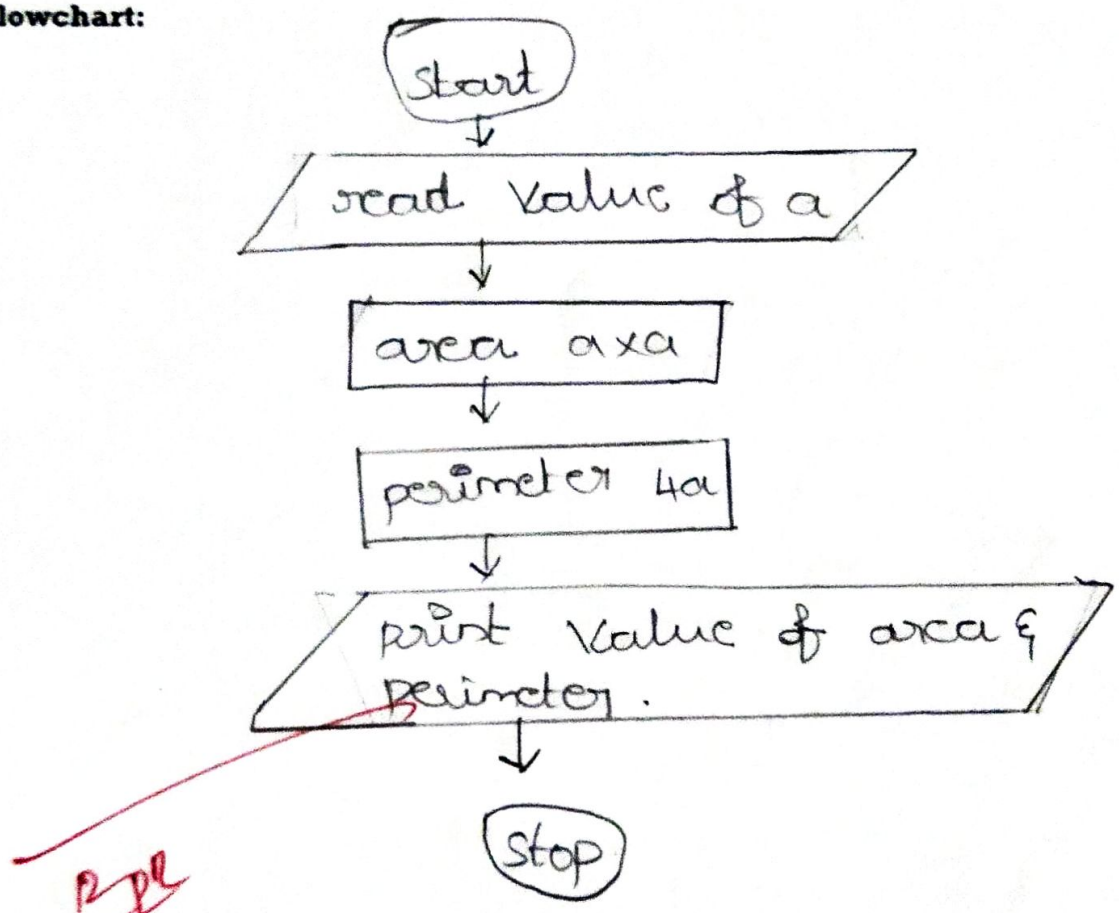
Algorithm:

Step 1 : read the Value 'a'

Step 2 : a x a

Step 3 : 4a

Flowchart:



RPL

Ex. No.: 11 **Date:** 22-10-24

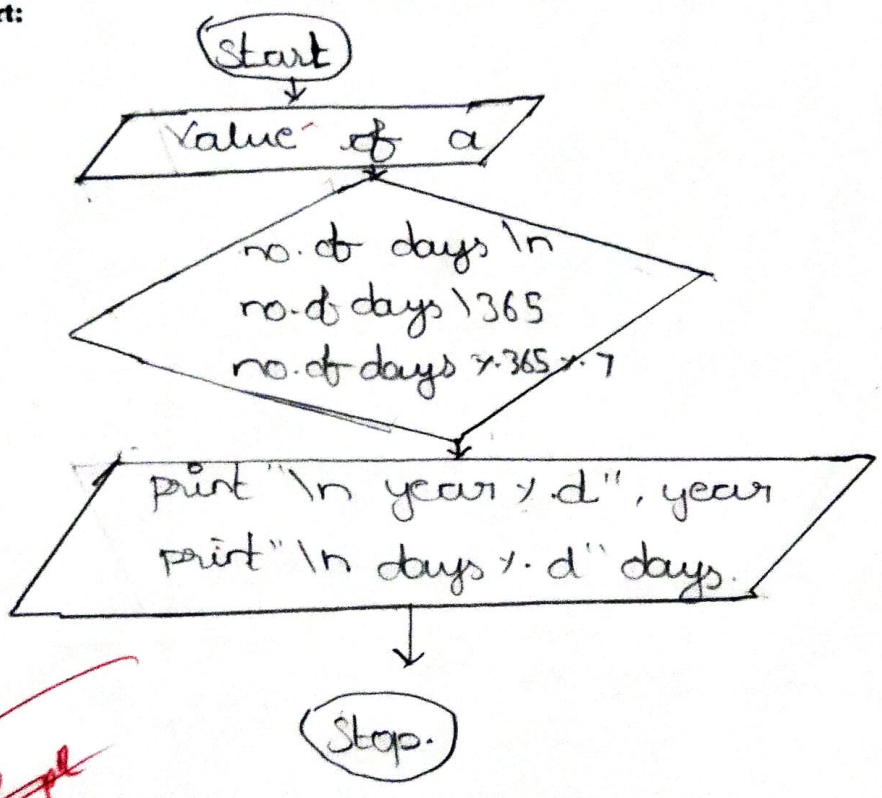
Days to Year Conversion

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 \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", days.
Step 7 : Stop.

Flowchart:



Ex. No.: 03 **Date:** 22-10-24

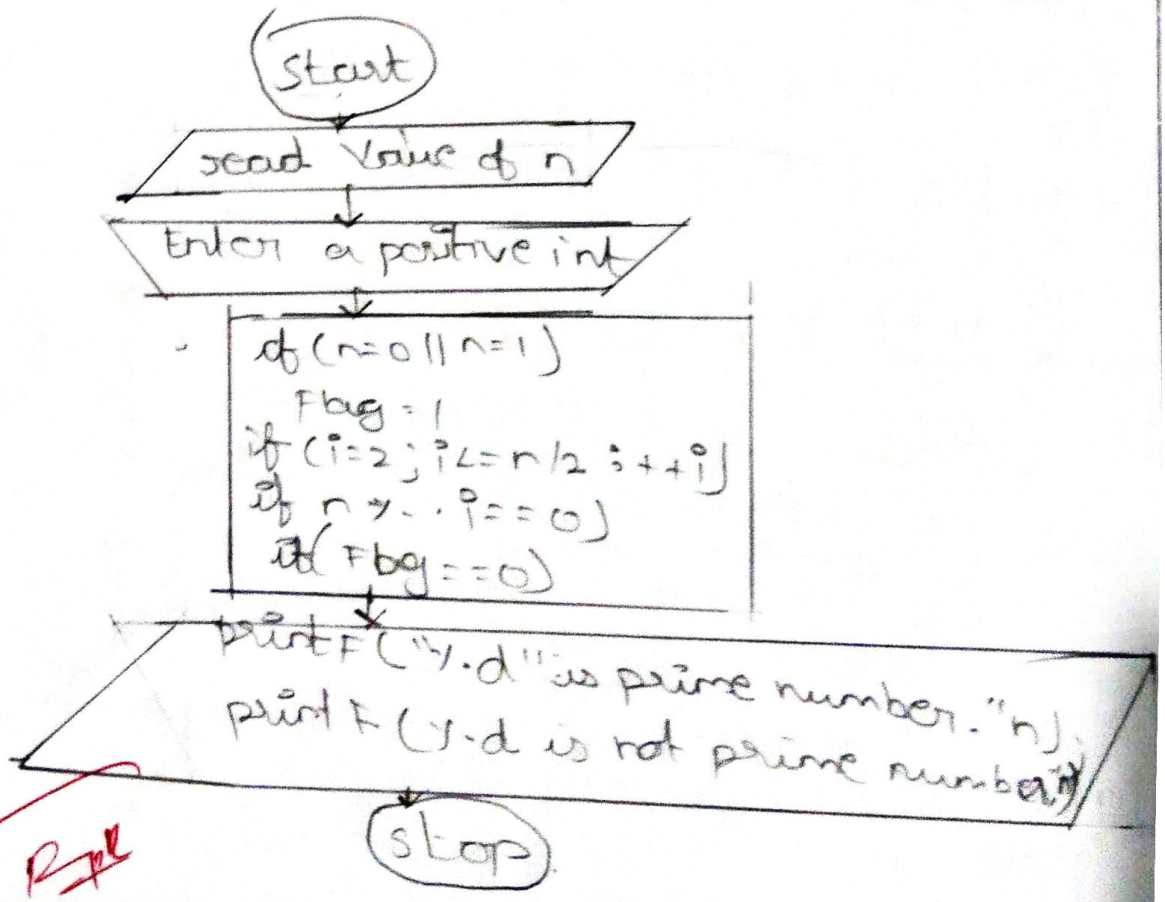
Prime Number

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 form 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, f flag=1 break ; or Stop
Step 6 : If Flag equal to 0
Step 7 : Then print %.d int prime number no '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:

Step1 : read the year & Declare Variables.

Step 2 : printF("Enter year you want to check").

Step 3 : scanF("%d", &year);

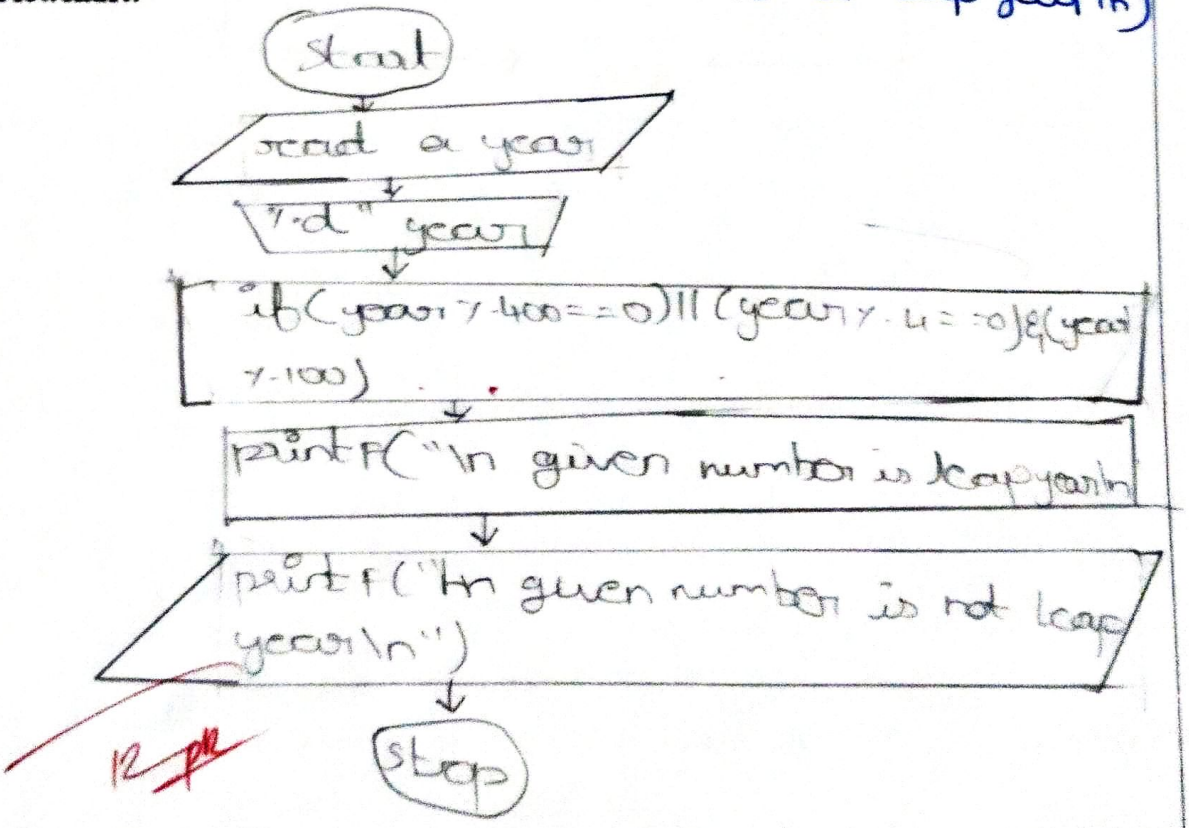
Store user provided input in variables %d

Step 4 : if (year %400 == 0) || (year % 4 == 0) & year %100);

Step 5 : printF("\n given year is leap year\n").

Step 6 : printF("\n given year is not leap year\n")

Flowchart:



Ex. No.: 05 **Date:** 22-10-24

Palindrome Number

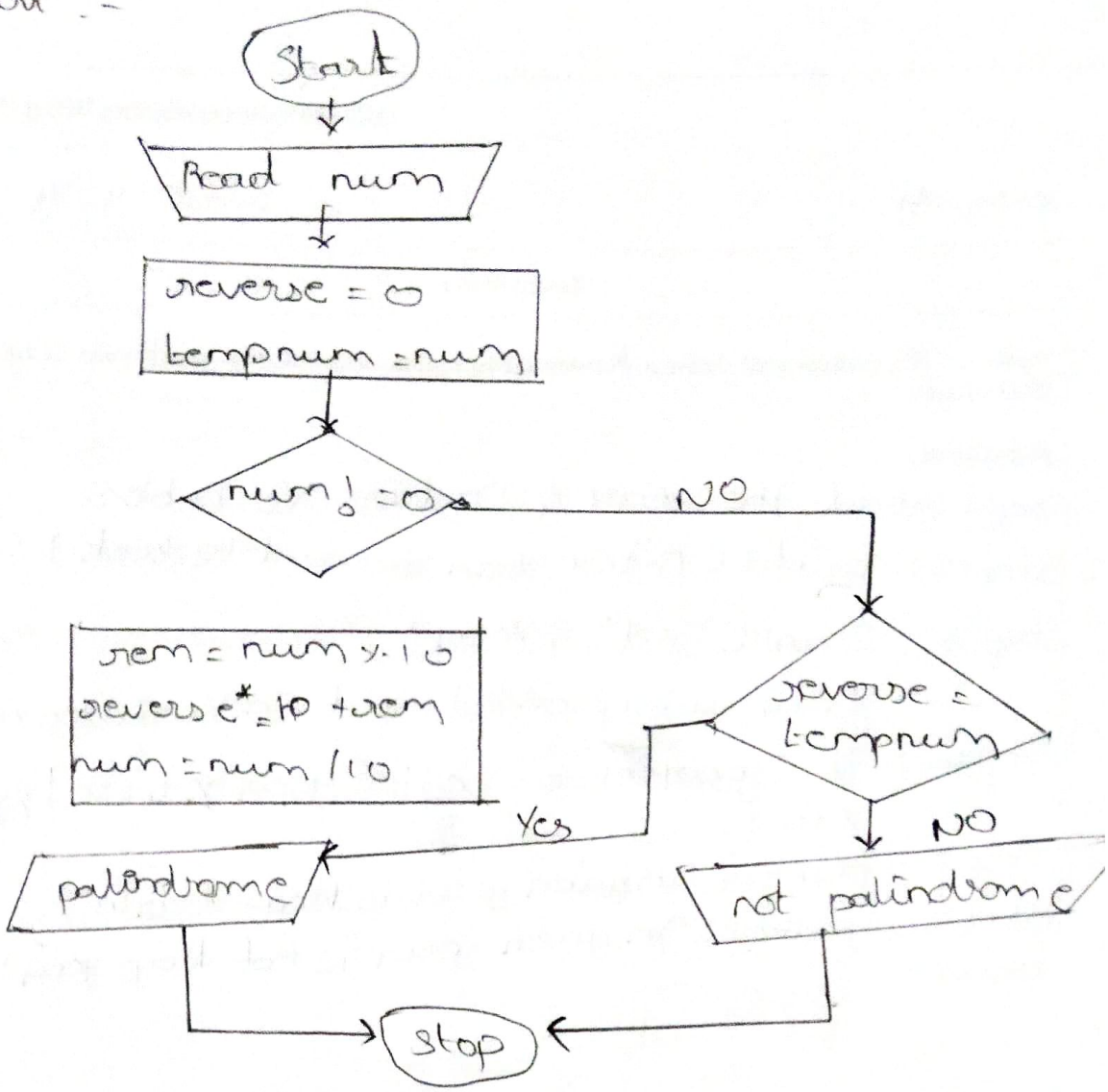
Write an Algorithm and draw a Flowchart to check whether the given number is palindrome number or not.

Algorithm:

Step1: start
step2 : Read the input number from the user
Step3 : assign input to temp variable tempNum=Num
Step4 : while loop until num != 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 not palindrome.

Flowchart:

Flowchart :-


Start
Read num
reverse = 0
temp num = num
num != 0
NO
rem = num % 10
reverse = reverse * 10 + rem
num = num / 10
reverse = temp num
Yes
NO
palindrome
not palindrome
Stop

Ex. No.: 06 **Date:** 22-10-24

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 : Declare Sum to 0

Step 3 : Read num 1

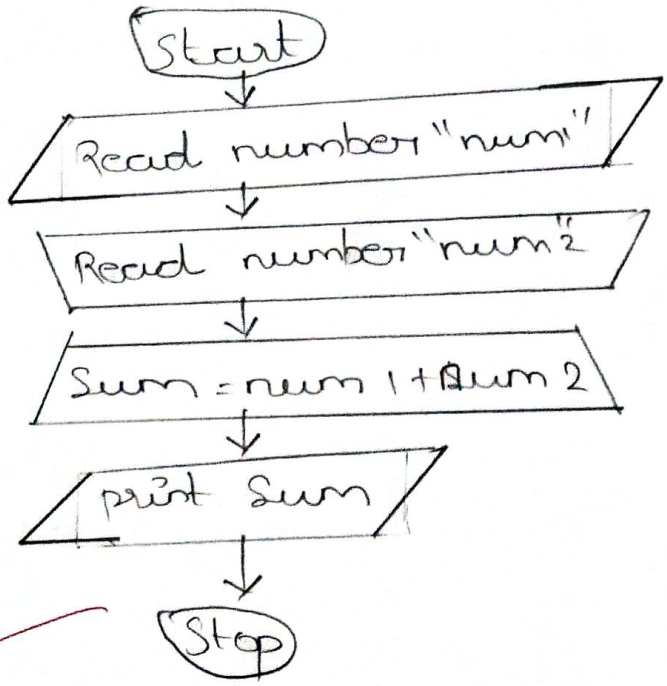
Step 4 : Read num 2

Step 5 : Add num 1 and num 2

Step 6 : print Sum

Step 7 : Stop

Flowchart:



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