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 start

step:2 Declare variable a

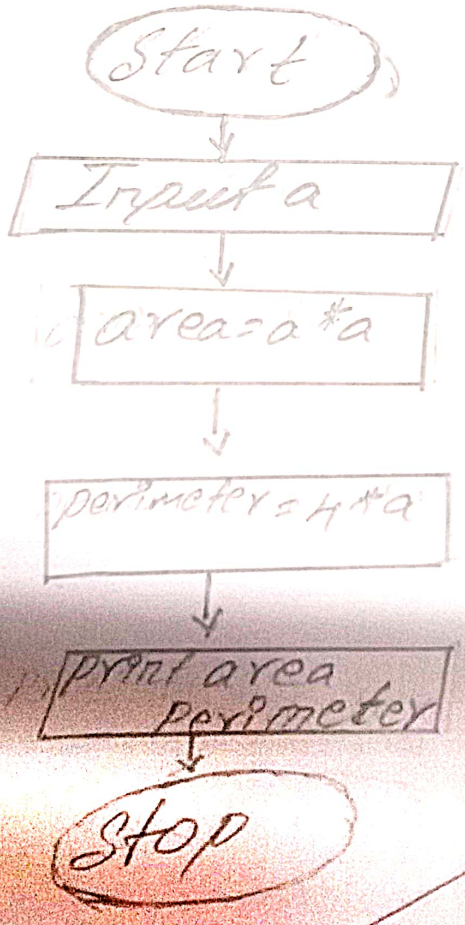
step:3 a*a and assign the value

step:4 4*a and assign the value to perimeter

step:5 print the value of area and perimeter

step:6 stop

Flowchart:



R+R

Ex. No.: 2

Date: 22.10.24

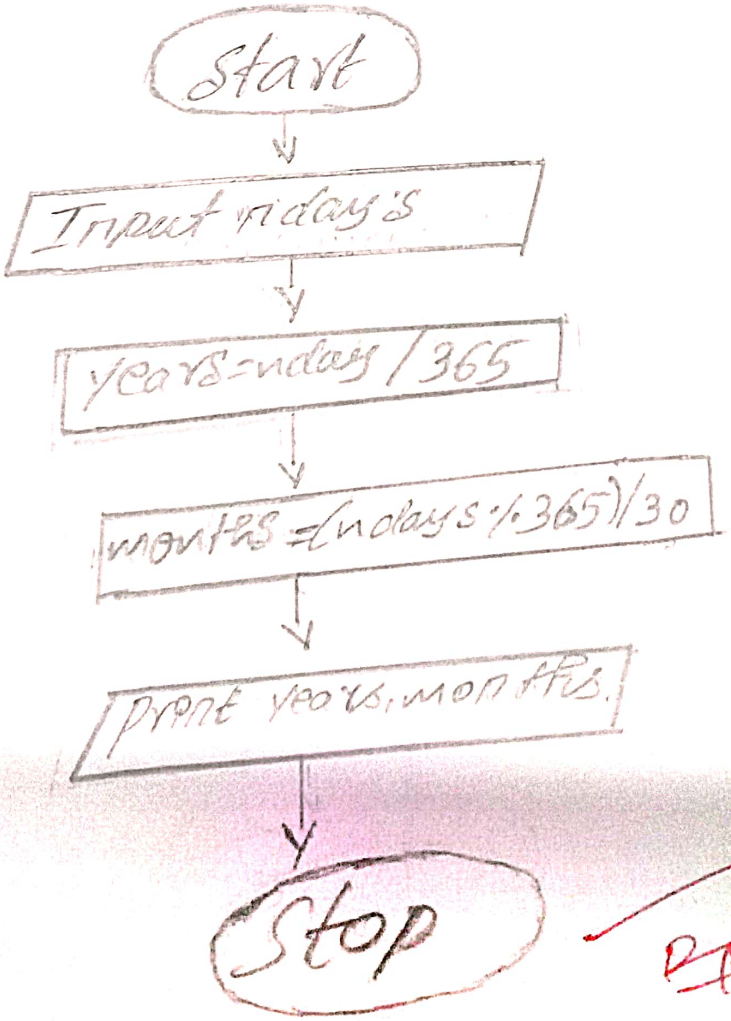
Days to Year Conversion

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

Algorithm:

step:1 start
step:2 Declare the variable ndays, years, months
step:3 Display a message to get input from user stored it in ndays
step:4 years = ndays / 365
step:5 months = (ndays % 365) / 30
step:6 print years and months
step:7 stop

Flowchart:



Rpr

Ex. No.: 3 Date: 22-10-24

Prime Number

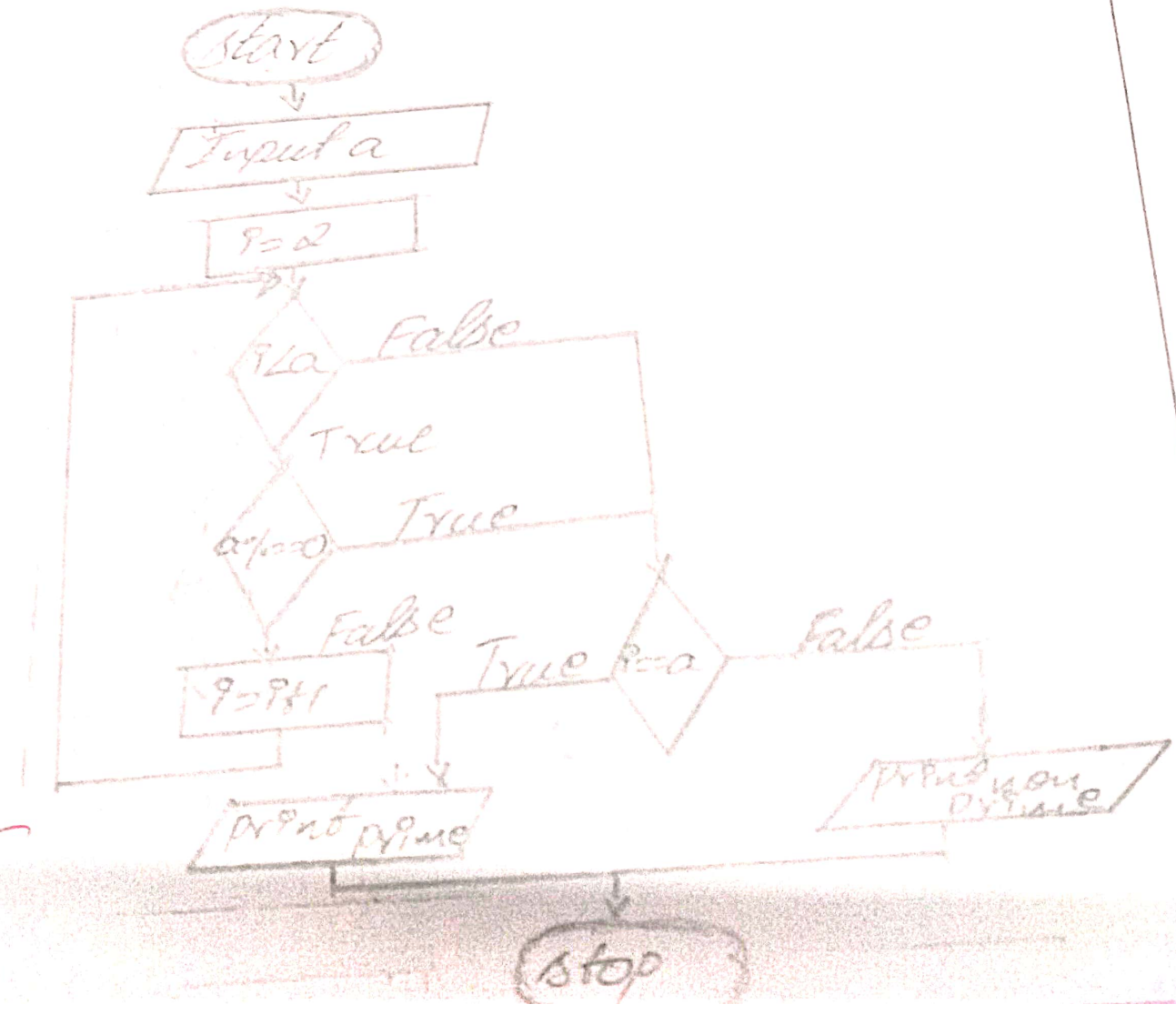
Write an Algorithm and draw a Flowchart to check whether the given number is Prime or not.

Algorithm:

Step:1 start
Step:2 Declare the value
Step:3 start the loop i from 1 to a-1
Step:4 if a is divided by i then print it is not a prime
Step:5 if a is not divided by i then print it is prime

Step:6 stop

Flowchart:



Ex. No.: 4 **Date:** 22-10-24

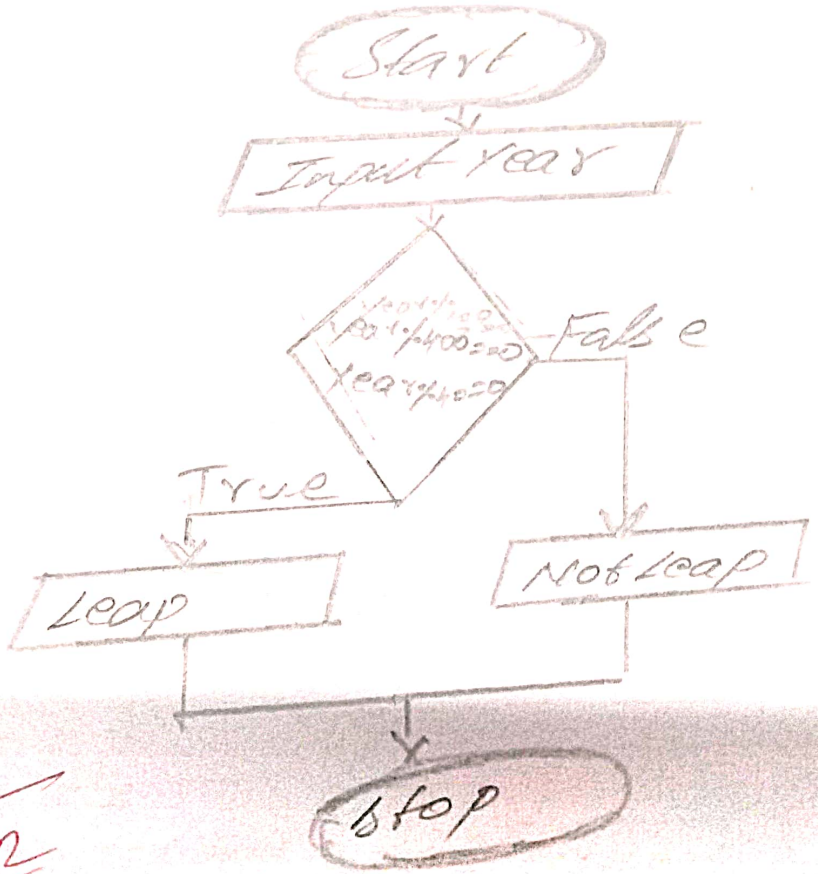
Leap Year

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

Algorithm:

Step:1 Start
Step:2 Declare the variable
Step:3 Display a message to get input from user and Stored
Step:4 Year%400==0 and Year%4==0
Step:5 Is True Print Leap
Step:6 otherwise Print not leap
Step:7 Stop

Flowchart:



RPR

Ex. No.: 5 **Date:** 22-10-24

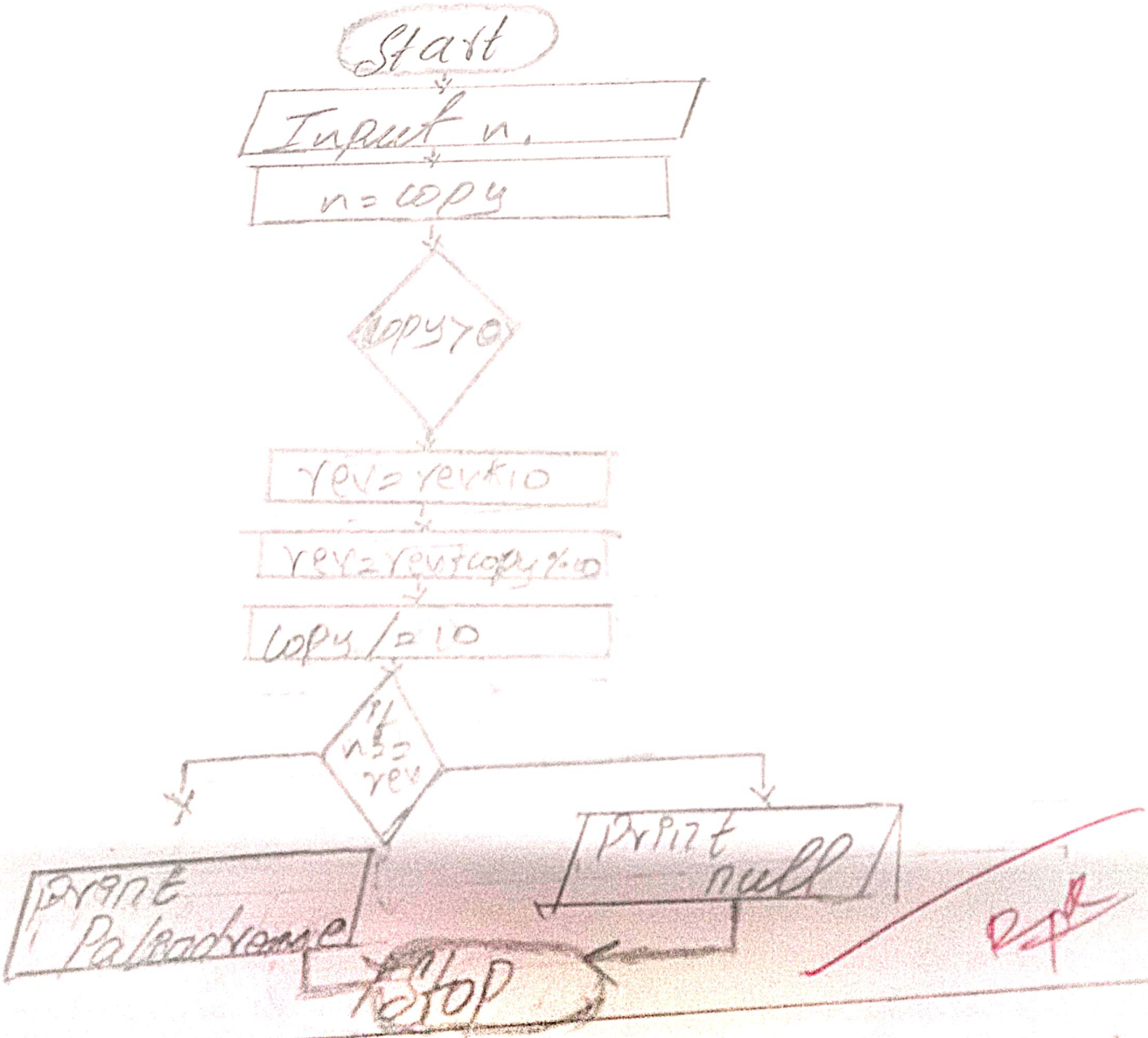
Palindrome Number

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

Algorithm:

Step:1 start
Step:2 Declare the variable
Step:3 Display a message to get input from user and stored
Step:4 Declare n=copy
Step:5 By while loop copy>0
Step:6 rev = rev*10
Step:7 rev = rev+(copy%10)
Step:8 copy/=10
Step:9 if n==rev, print palindrome otherwise print null
Step:10 stop

Flowchart:



Ex. No.: 6 Date: 29.10.24

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 the variable sum = 0
Step:3 Display a message to get input user an stored
Step:4 using while loop and continue loop until n becomes 0
Step:5 (n%10 +sum)
Step:6 n = n/10
Step:7 print sum
Step:8 stop

Flowchart: