

Ex. No.: 1

Date: 22-10-24

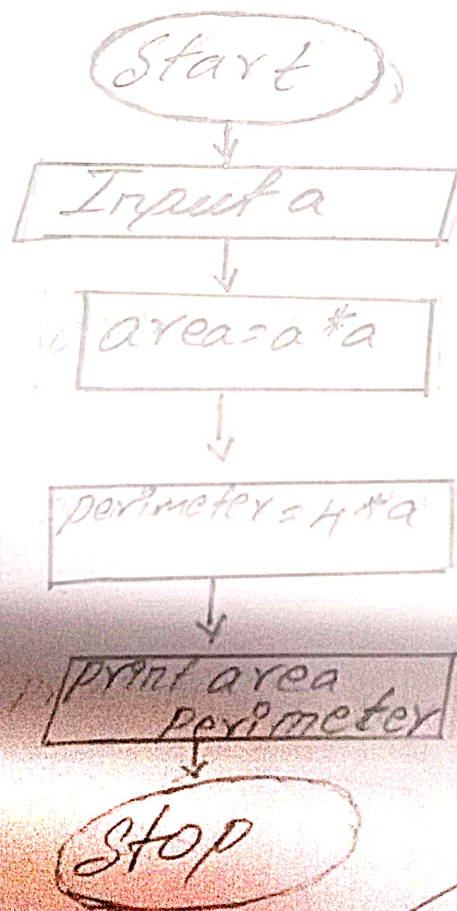
Calculate Area and Perimeter

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

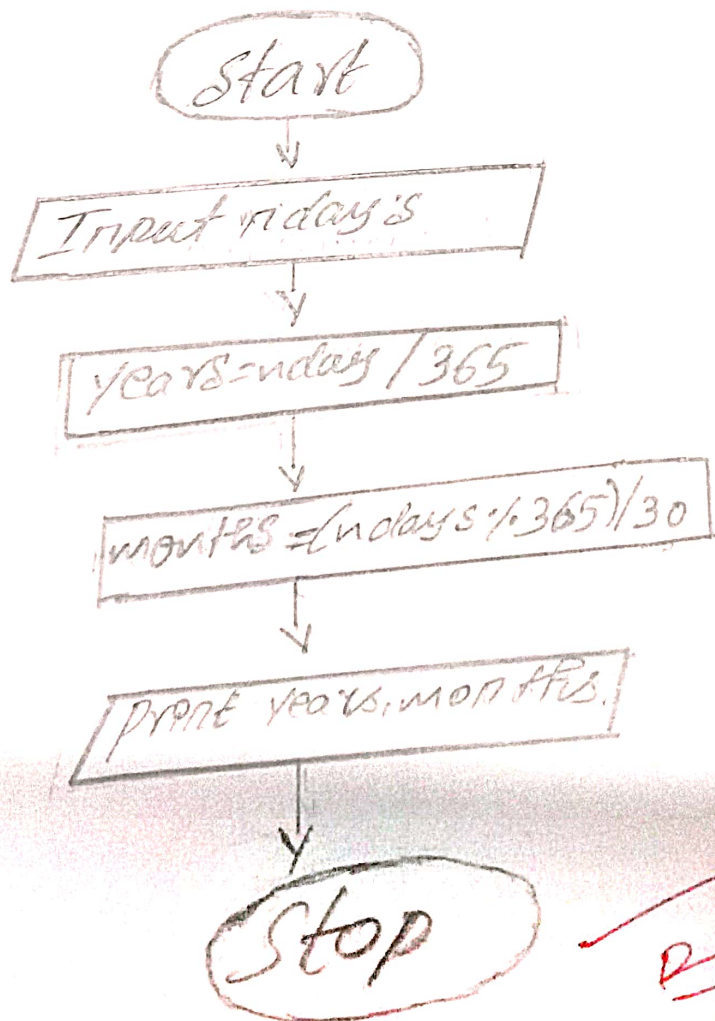
Days to Year Conversion

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

Algorithm:

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

Flowchart:



Ex. No.: 3

Date: 22-10-24

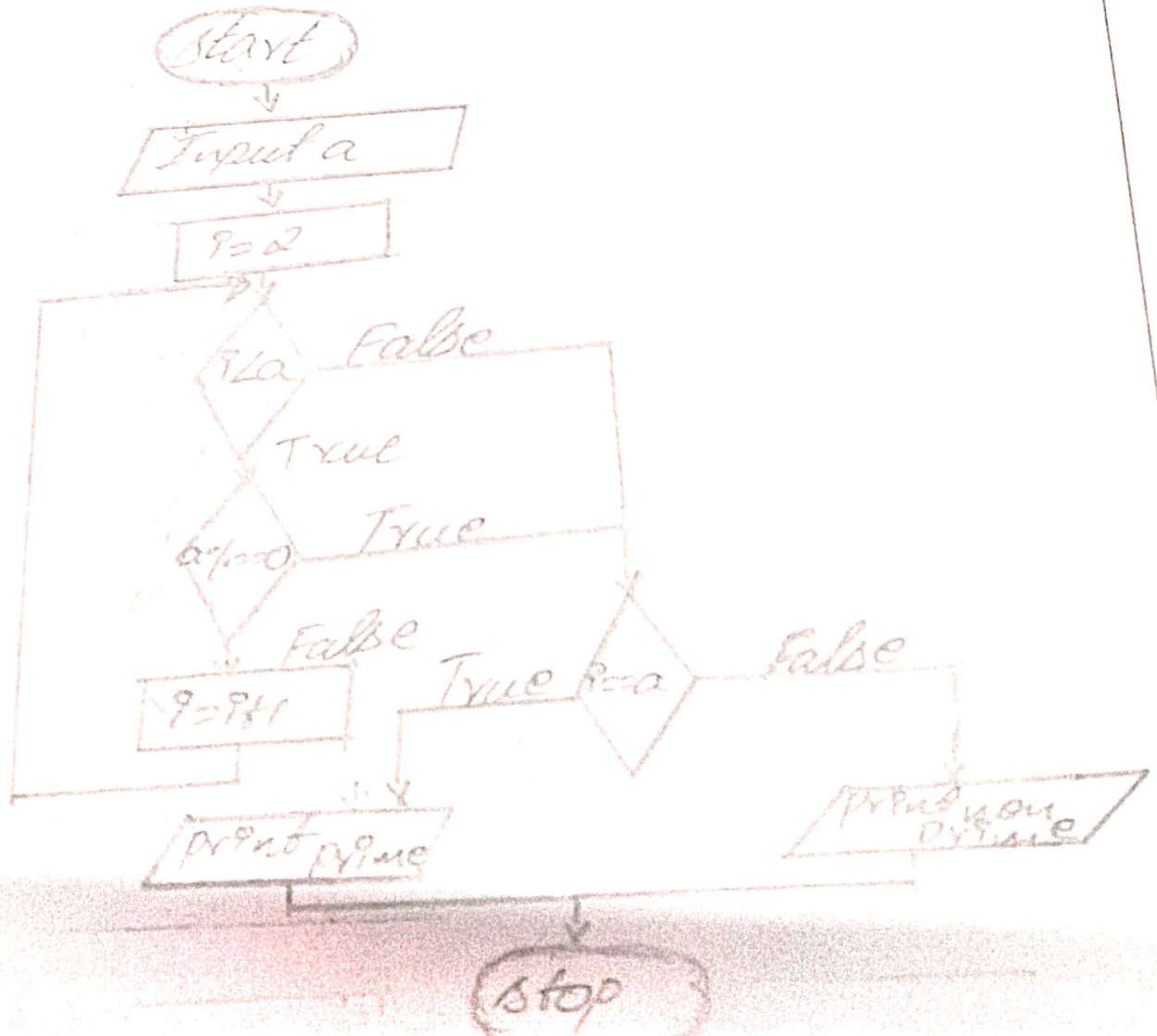
Prime Number

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

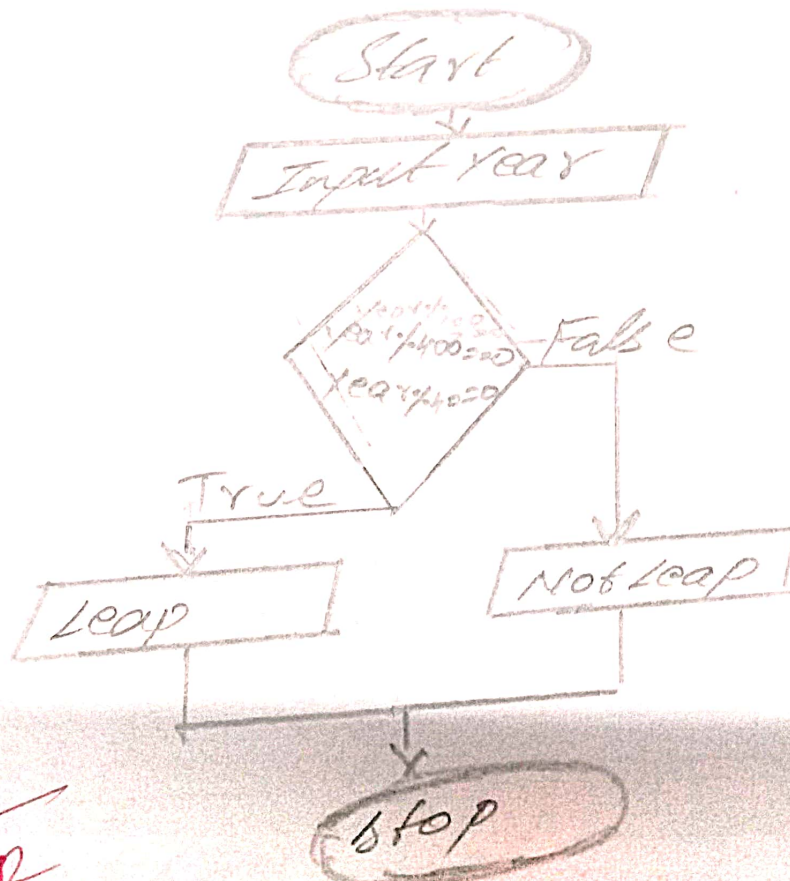
Leap Year

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 $\text{Year} \% 400 == 0$ and $\text{Year} \% 100 == 0$
 Step:5 If True Print leap
 Step:6 Otherwise Print not leap
 Step:7 Stop

Flowchart:



Rpr

Ex. No.:

5

Date:

22-10-24

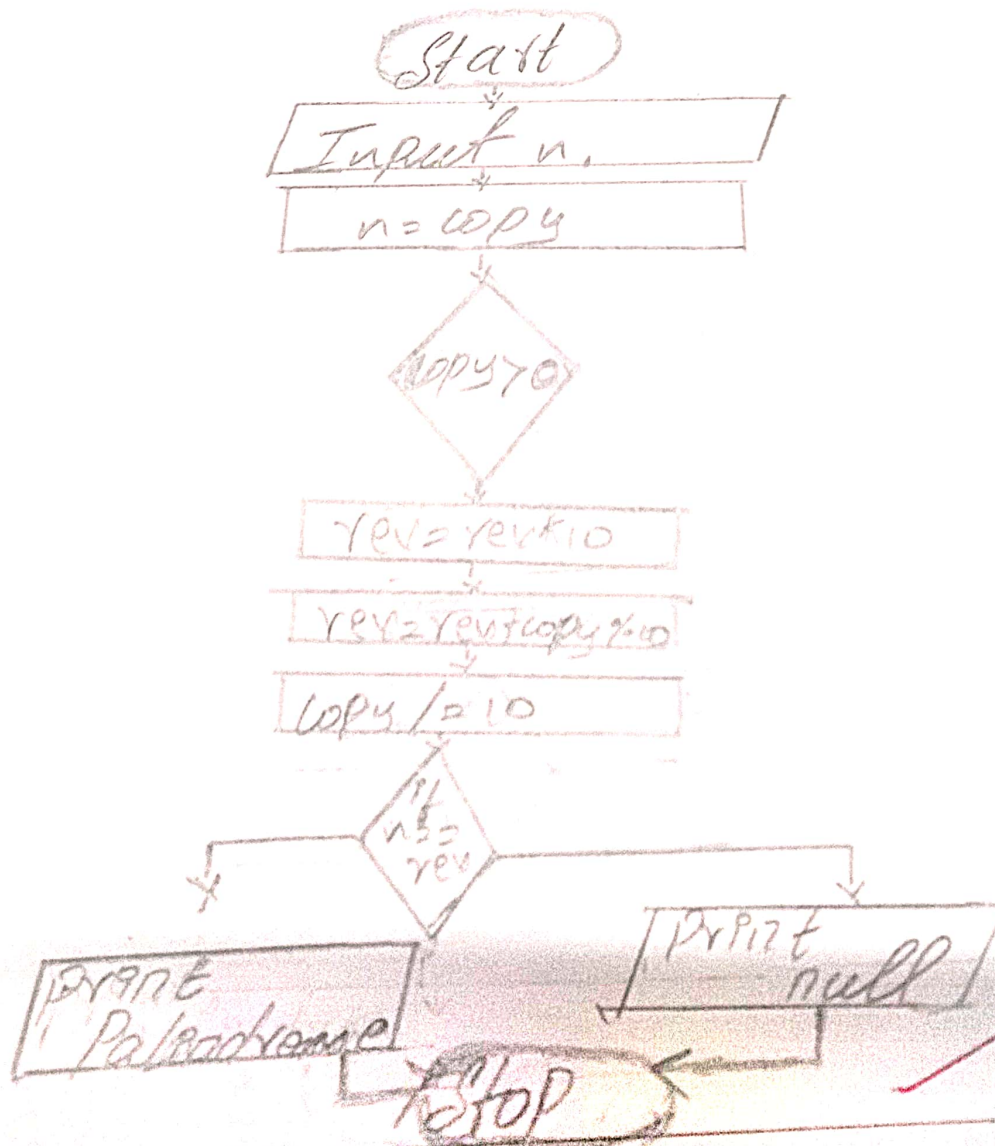
Palindrome Number

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 $n = \text{copy}$
 Step:5 By while loop $\text{copy} > 0$
 Step:6 $\text{rev} = \text{rev} * 10$
 Step:7 $\text{rev} = \text{rev} + (\text{copy} \% 10)$
 Step:8 $\text{copy} /= 10$
 Step:9 If $n == \text{rev}$, print palindrome otherwise print null
 Step:10 stop

Flowchart:



Ex. No.: 6

Date: 29.10.21

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 Decline 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:

