

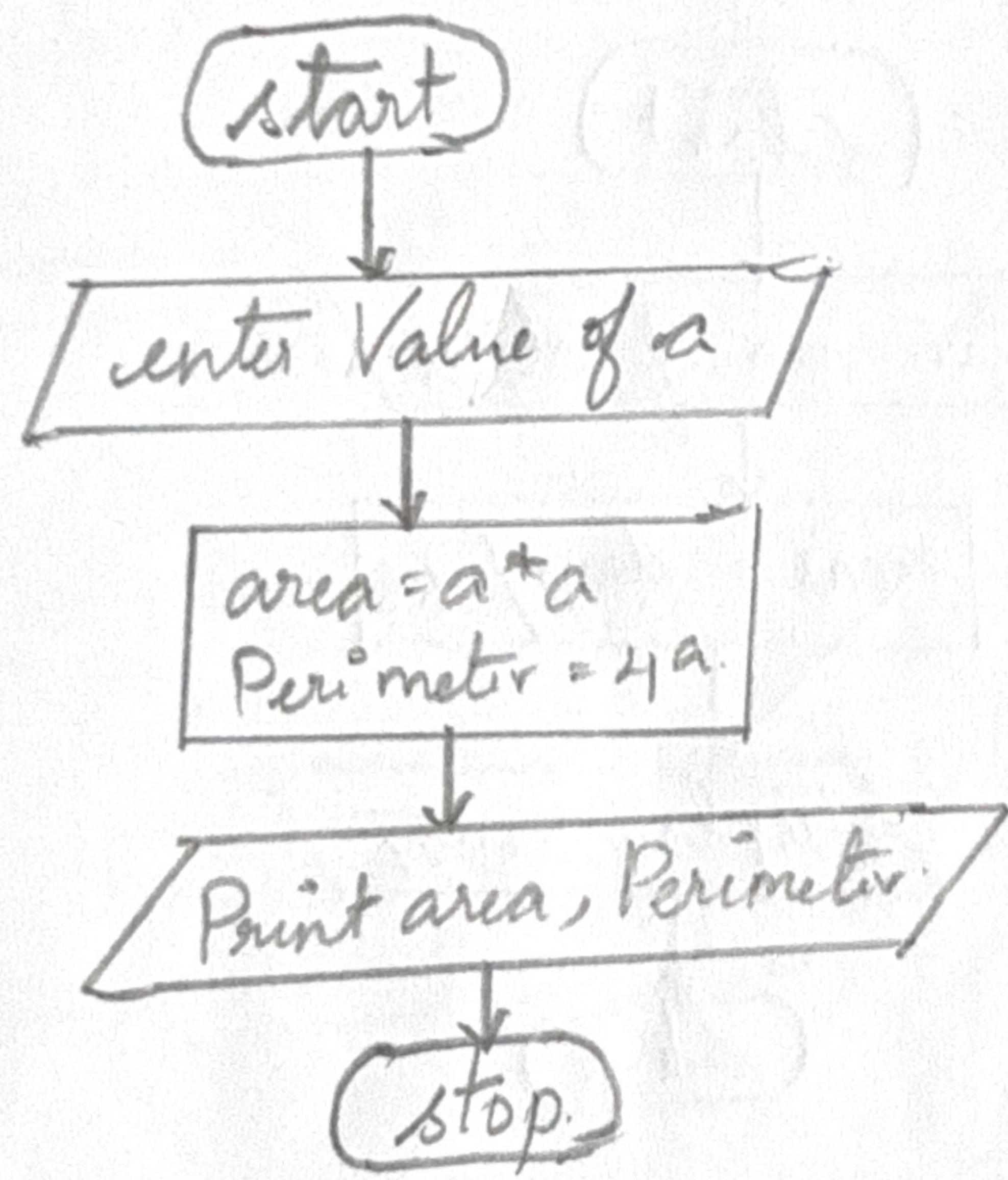
### Calculate Area and Perimeter

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

**Algorithm:**

- STEP 1: start
- STEP 2: enter Value of a for square
- STEP 3: area =  $a^2$
- STEP 4: Perimeter =  $4a$ .
- STEP 5: Display area & perimeter of square.
- STEP 6: stop

**Flowchart:**



Sample O/P

9  
12

RPN

Ex. No.: II

Date: 25-10-14

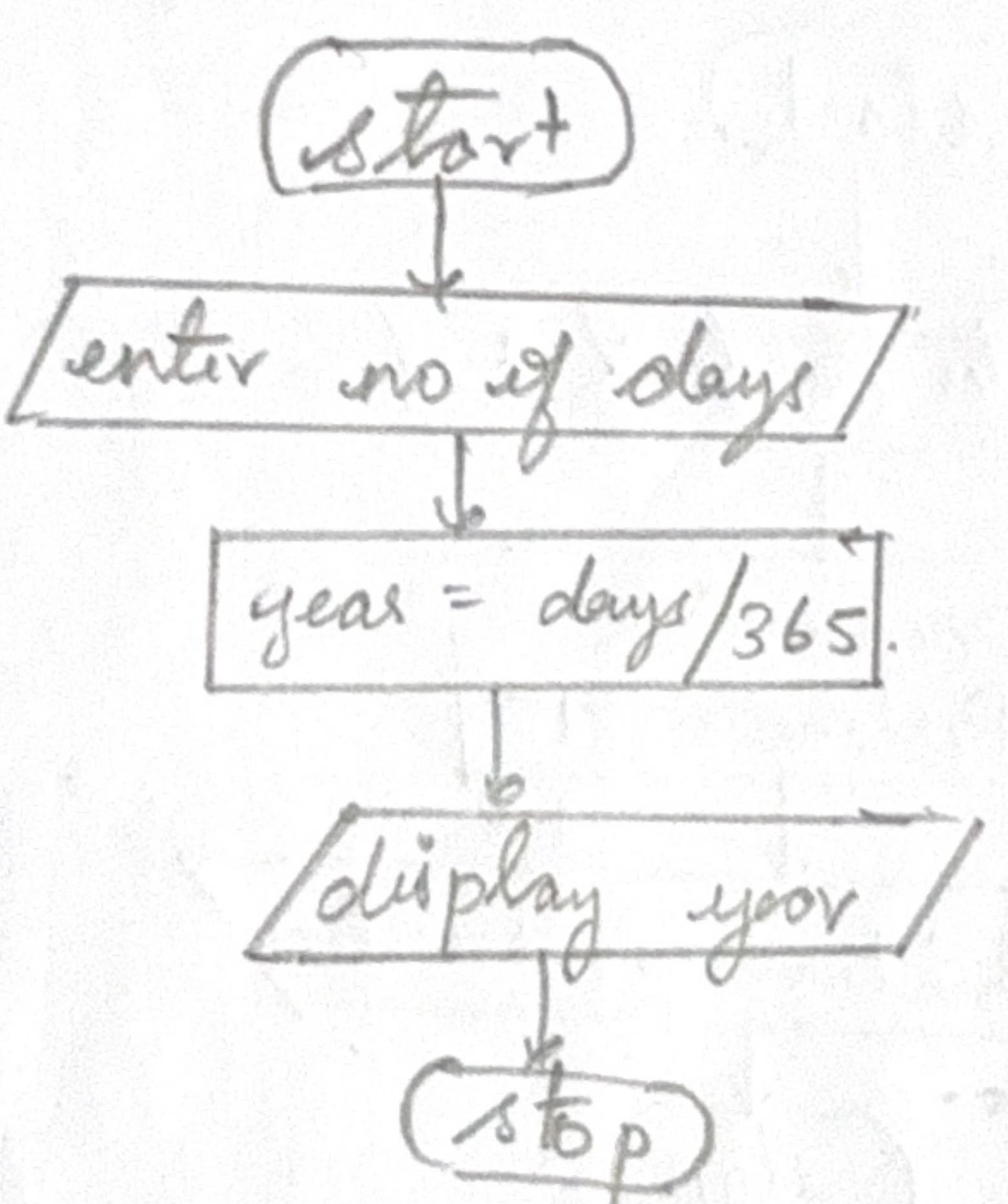
### Days to Year Conversion

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

Algorithm:

- STEP 1: start
- STEP 2: enter number of days
- STEP 3:  $year = days/365$ .
- STEP 4: print year.
- STEP 5: stop

Flowchart:



Damph output  
1

RPH

Ex. No.: 171

Date: 23-10-24

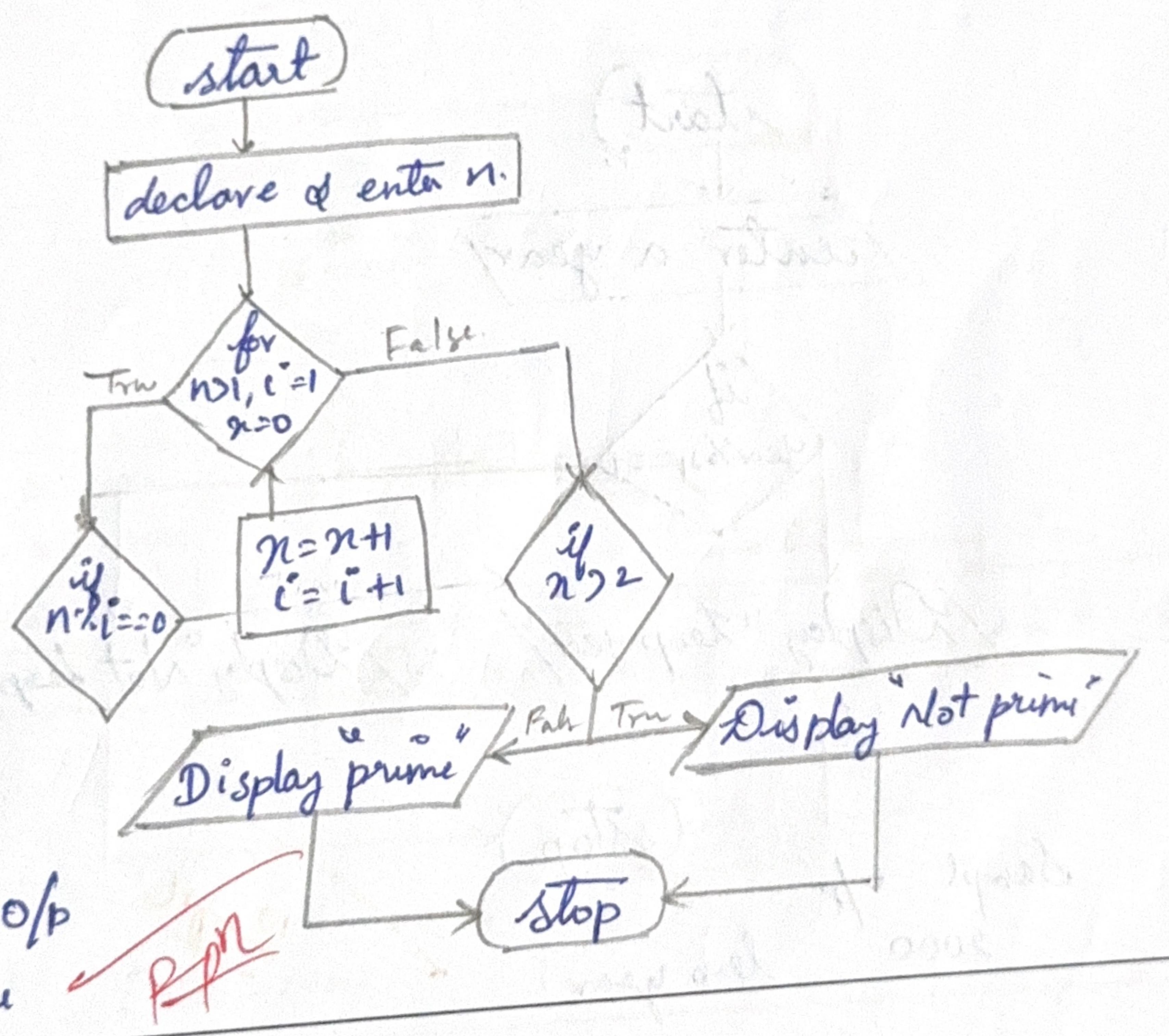
### Prime Number

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

**Algorithm:**

- step 1: start
- step 2: enter number  $n$
- step 3: for which  $n > 1$ ,  $i = 1, x = 0$
- step 4: if  $n \times i = 0$ , if true  $x = x + 1, i = i + 1$
- step 5: if  $x > 2$
- step 6: print it is prime else it is not prime
- step 7: stop

**Flowchart:**



Ex. No.: IV

Date: 23-10-24

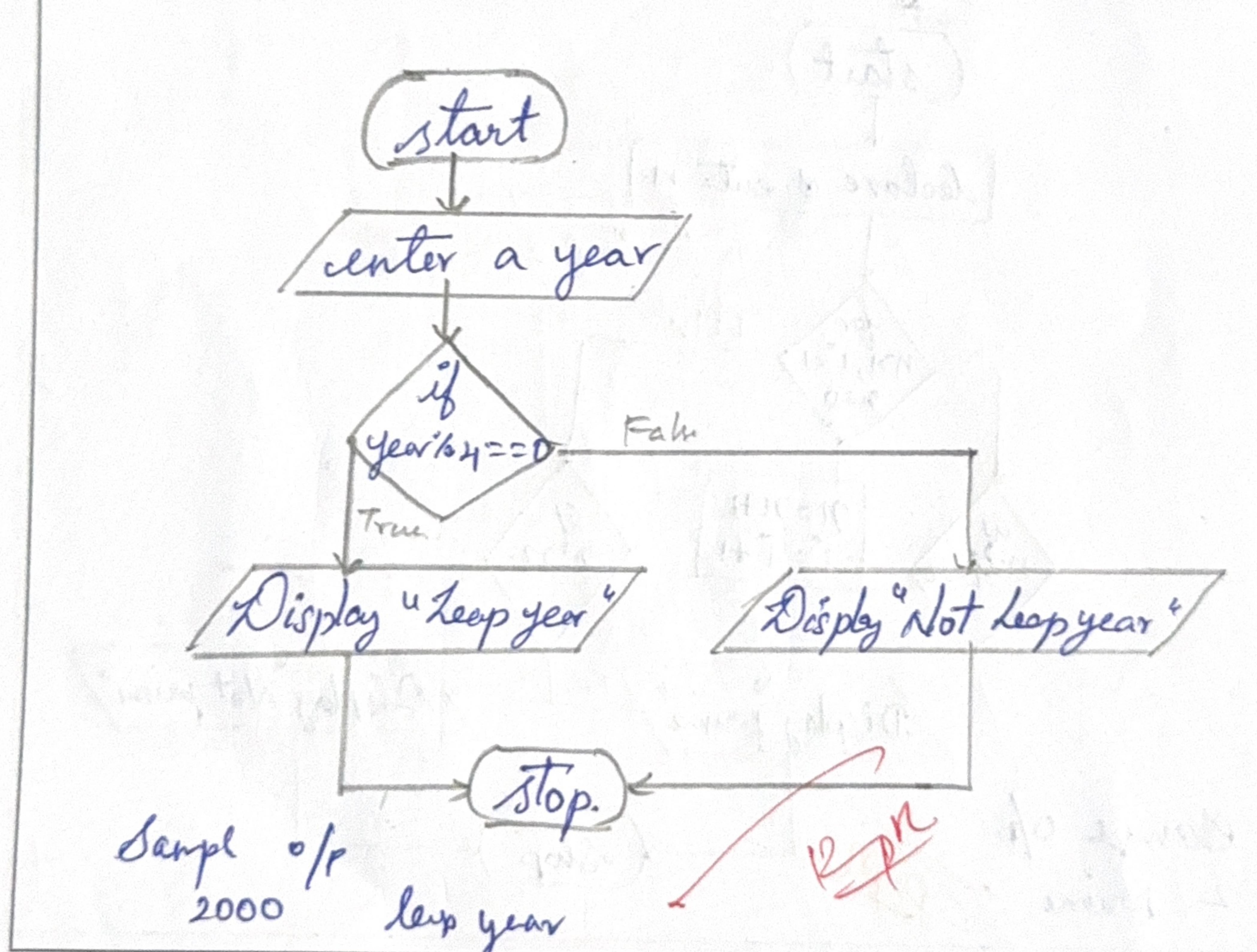
### Leap Year

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

**Algorithm:**

- Step 1: start
- Step 2: enter a year
- Step 3: if  $\text{year} \% 4 == 0$  display It is leap year
- Step 4: else not a leap year
- Step 5: stop

**Flowchart:**



Ex. No.: 5

Date: 28-10-24

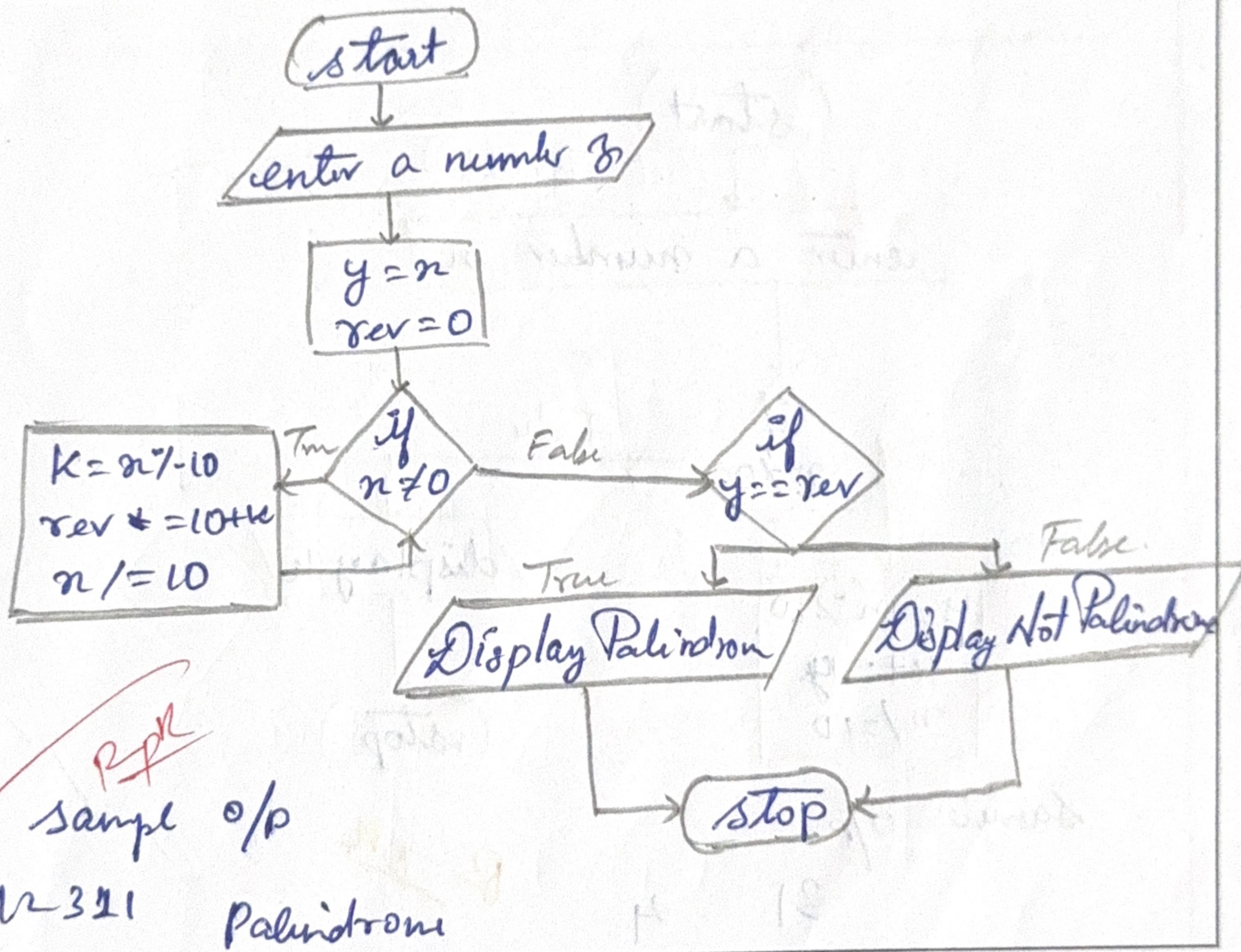
**Palindrome Number**

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

**Algorithm:**

- Step 1: start
- Step 2: enter a number as  $y$
- Step 3: Declare  $n = y$ ,  $rev = 0$
- Step 4: check  $n \neq 0$  if true  $k = 2^{\log_{10} n}$
- Step 5:  $rev * = 10 + k$
- Step 6:  $n / = 10$
- Step 7: if  $n == rev$  if true palindrome
- Step 8: else display not palindrome
- Step 9: stop

**Flowchart:**



Ex. No.: VI

Date: 21-06-14

### 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: enter number as  $n$ .
- Step 3: Declare  $k=0$ .
- Step 4: if  $n \neq 0$  if true
- Step 5:  $y = n \% 10$ ,  $k += y$ ,  $n /= 10$
- Step 6: else display  $k$ .
- Step 7: stop.

**Flowchart:**

