

Ex. No.: 1

Date: 27/9/24

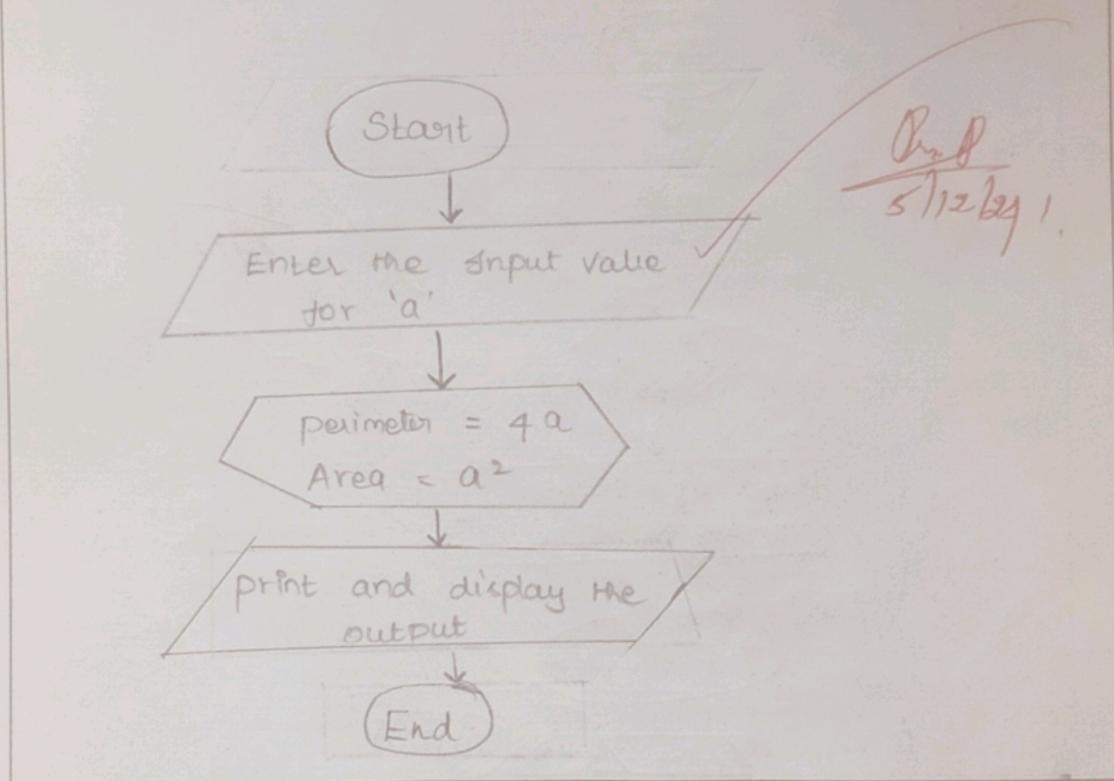
Calculate Area and Perimeter

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

Algorithm:

- Step 1 : Start
- Step 2 : Input the value for the Variable 'a'.
- Step 3 : Calculate the perimeter by using formula $P = 4a$
- Step 4 : calculate the area by using formula $A = a^2$
- Step 5 : print perimeter and Area and Run the program
- Step 6 : End.

Flowchart:



Ex. No.: 2

Date: 27/9/29

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 :: Input the Value for days, months, years.

Step 3 :: years = days / 365

Step 4 :: total days = total days % 365

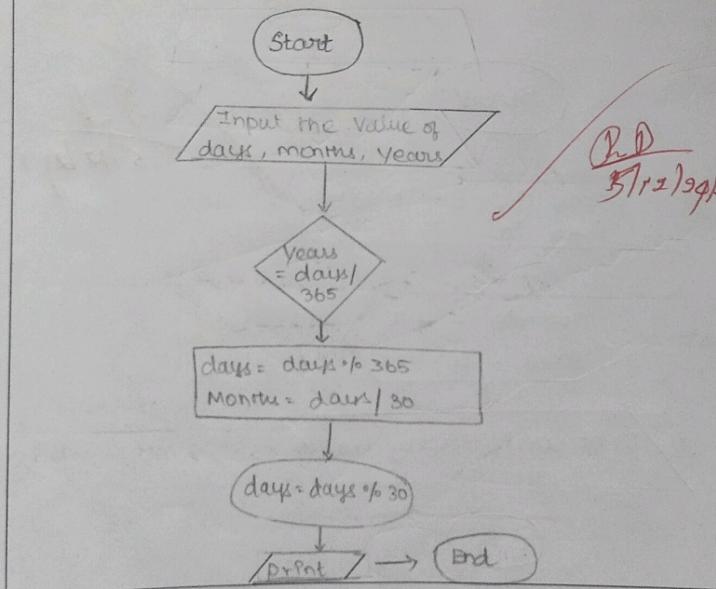
Step 5 :: months = ~~total days~~ / 30

Step 6 :: days = days % 30

Step 7 :: print the data

Step 8 :: End.

Flowchart:



Ex. No.: 3

Date: 3/10/24

Prime Number

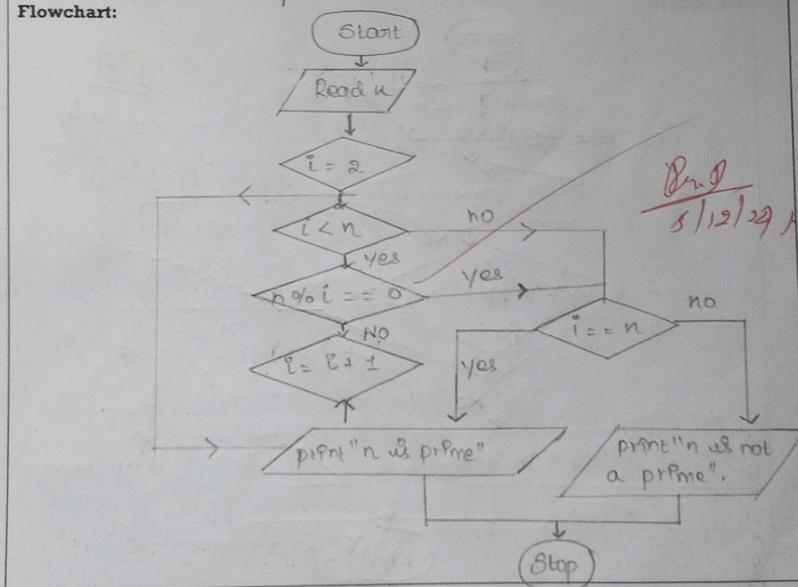
Write an Algorithm and draw a Flowchart to check whether the given number is Prime or not.

Algorithm:

```

Step 1: Start
Step 2: Input the value of A
Step 3: Set f = 1
Step 4: If n = 1, then print "n is not a prime" go to step 8
Step 5: For i = 2 to n-1
Step 6: If n % i == 0 then set f = 1 and break else
      go to step 5
Step 7: If f == 1 then
      print "n is not prime number" else print "n is prime number".
Step 8: Stop
    
```

Flowchart:



Date: 3/10/24

Ex. No.: 1

Leap Year

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

Algorithm:

Step 1: Start

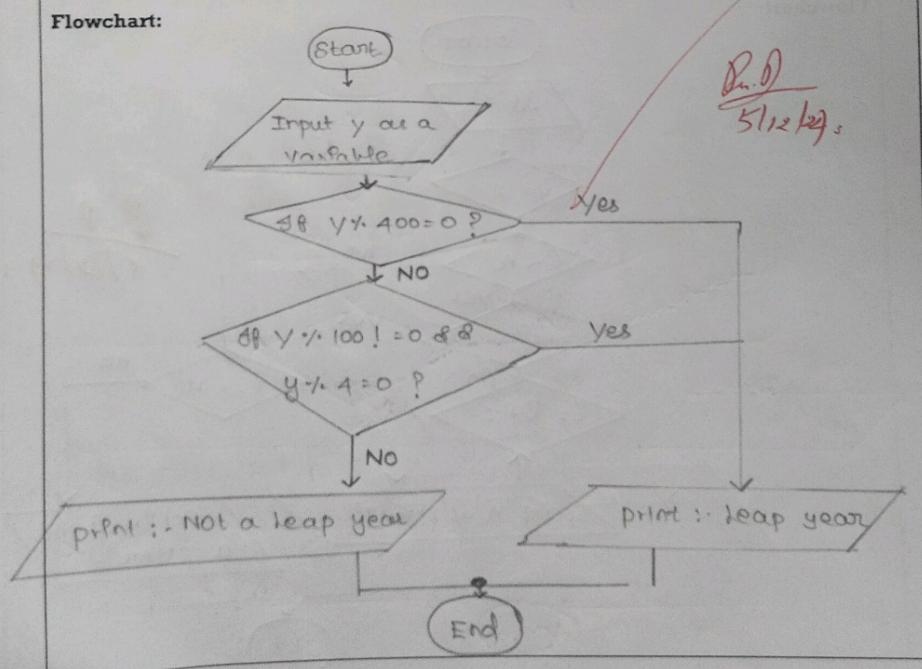
Step 2: Input year in Variable 'y'

Step 3: If $(Y \% 4 == 0 \ \& \ Y \% 100 \neq 0) \ \text{or} \ Y \% 400 == 0$
then step 4, else step 5.

Step 4: Display "Leap year".

Step 5: Display "Not a leap year".

Step 6: Stop.

Flowchart:

Ex. No.: 5

Date: 3/10/24

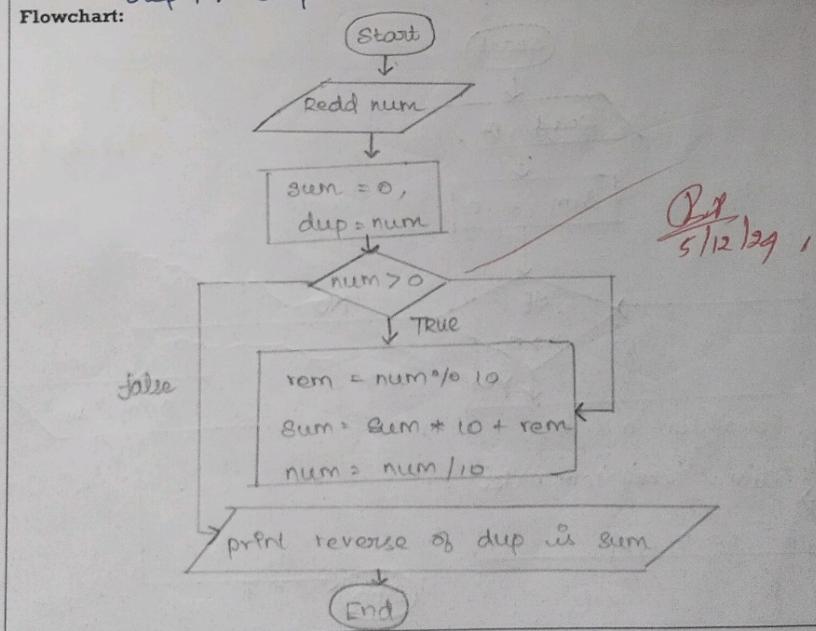
Palindrome Number

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

Algorithm:

```

Step 1 : Start
Step 2 : Read a number num
Step 3 : Set sum = 0, dup = num
Step 4 : While num > 0 true continue else, go to step 8.
Step 5 : Set rem = num % 10
Step 6 : Set sum = sum * 10 + rem
Step 7 : Set num = num / 10 go to step 4
Step 8 : Print sum value that is reverse number
Step 9 : Stop.
    
```

Flowchart:

Ex. No.: 6

Date: 3/10/24

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:- Read n
Step 3:- Declare sum = 0
Step 4:- remainder = n % 10
         sum = sum + remainder
         n = n / 10
Step 5:- if (n > 0) then go to step 4.
         else go to step 6
Step 6:- print sum
Step 7:- Stop
    
```

Flowchart:

