

Date: 24/11/24

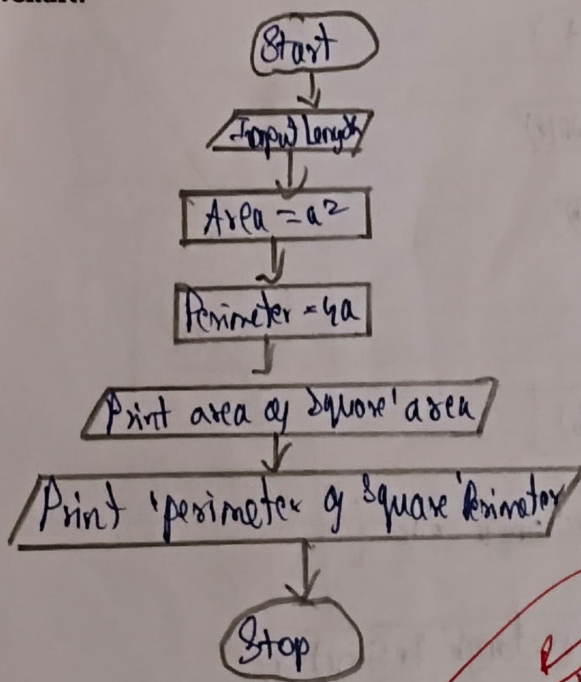
Calculate Area and Perimeter

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

Algorithm:

- Step 1:- Start
- Step 2:- Enter the input a and assign the value for it
- Step 3:- $\text{Area} = a^2$, $\text{perimeter} = 4a$
- Step 4:- Apply the above formula for it.
- Step 5:- print the area and perimeter value.
- Step 6:- Display the output.
- Step 7:- Stop.

Flowchart:



Ex. No.: 2

Date: 24/11/24

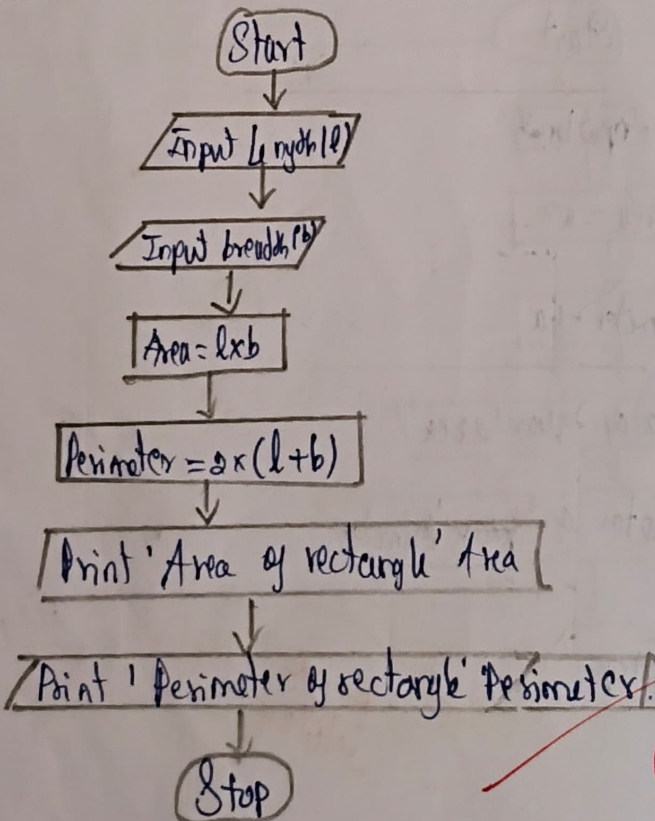
Days to Year Conversion

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

Algorithm:

- Step 1:- Start
- Step 2:- Input the days as 'd'
- Step 3:- No. of months = $d/30$
- Step 4:- No. of years = $d/365$
- Step 5:- Display both number of years and months
- Step 6:- Stop

Flowchart:



24/11/24

Ex. No.: 3

Date: 24/11/24

Prime Number

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

Algorithm:

Step 1:- Start

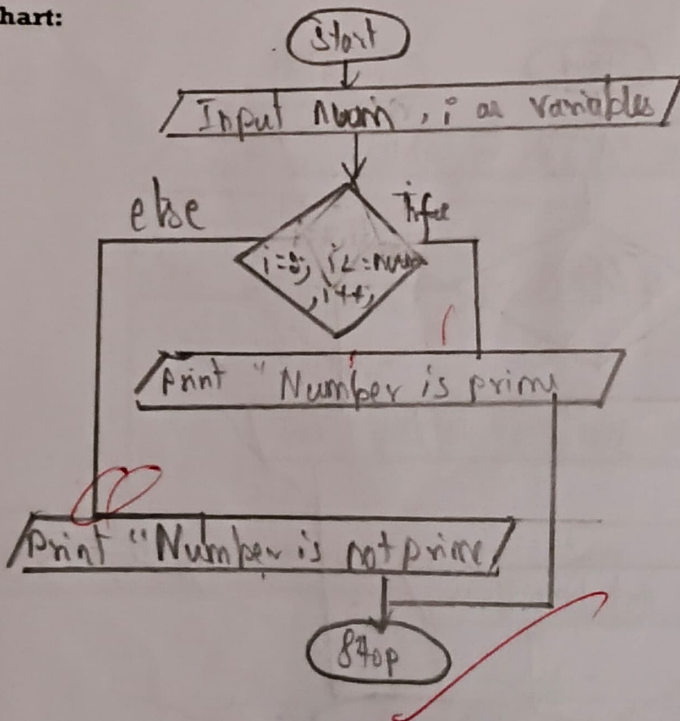
Step 2:- Enter the variable n and i as a prime

Step 3:- Using for loop condition for i is 2
 $i \leq \text{number}$, if $\text{number} \% i == 0$, the break the loop.

Step 4:- If $i == \text{number}$, then print "Number is prime"

Step 5:- Else, print "Number is not a prime".

Flowchart:



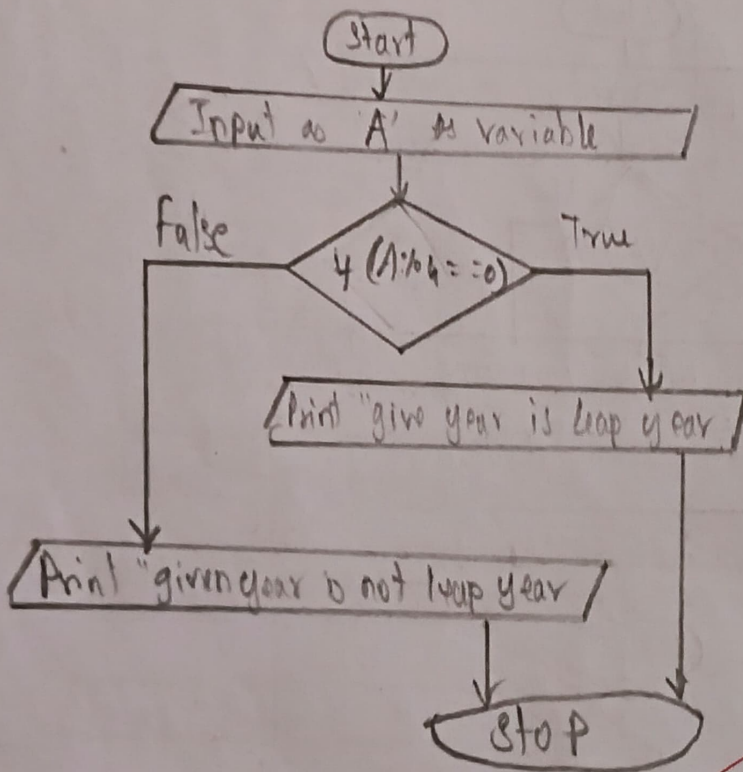
Leap Year

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 as A as given year
 Step 3 :- Using if condition gave $A \% 4 == 0$, if
 Output is true
 Step 4 :- Print "The give year is Leap year".
 Step 5 :- else, print "The given year is not leap year"
 Step 6 :- Stop.

Flowchart:



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22/11/24*

Ex. No.: 5

Date: 22/11/24

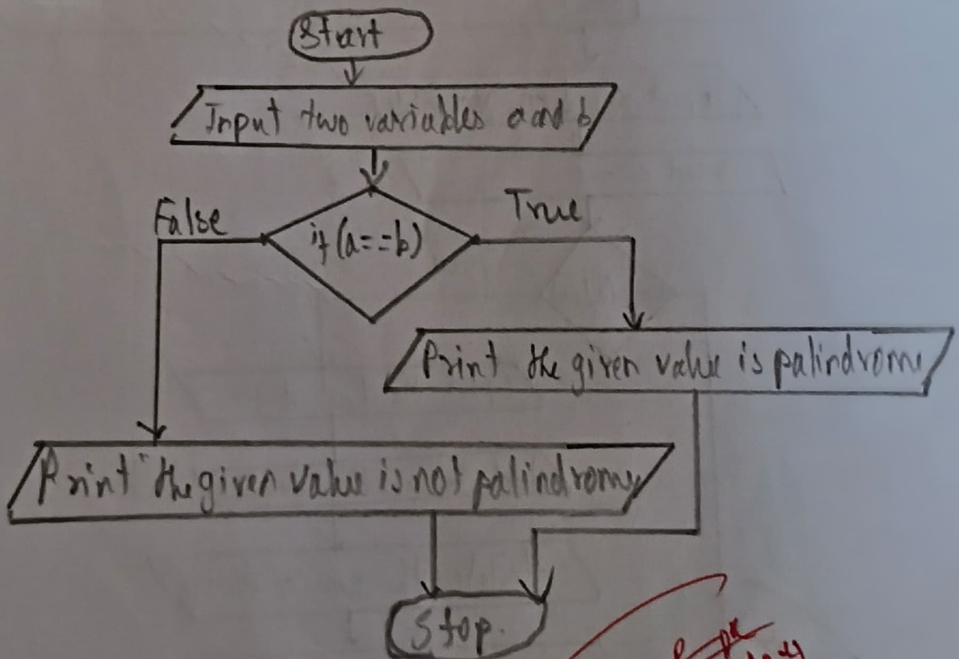
Palindrome Number

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

Algorithm:

- Step 1:- Start
- Step 2:- Assign two variables: a and b, with assign number.
- Step 3:- Using if condition the $a == b$ is true, then print it is palindrome.
- Step 4:- If not, else it is not palindrome
- Step 5:- Print Display the output.
- Step 6:- Stop.

Flowchart:



22/11/24

Ex. No.: 6

Date: 24/11/24

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 :- Assign a, b as variable, Assign a value for it.
- Step 3 :- Using while loop give a condition that end when it comes to Zero.
- Step 4 :- Split the last digit.
- Step 5 :- Add to another variable and calculate it.
- Step 6 :- Display the sum of digits
- Step 7 :- Stop.

Flowchart:

