Name: M. Mukilan

Class: AIML 'B'

Roll no: 241501122

EX NO: 1

write an algorithm and draw a flowchart to calculate the area and perimeter of a square

Algorithm:

Step 1 → Start

Step 2 → Get the value of side

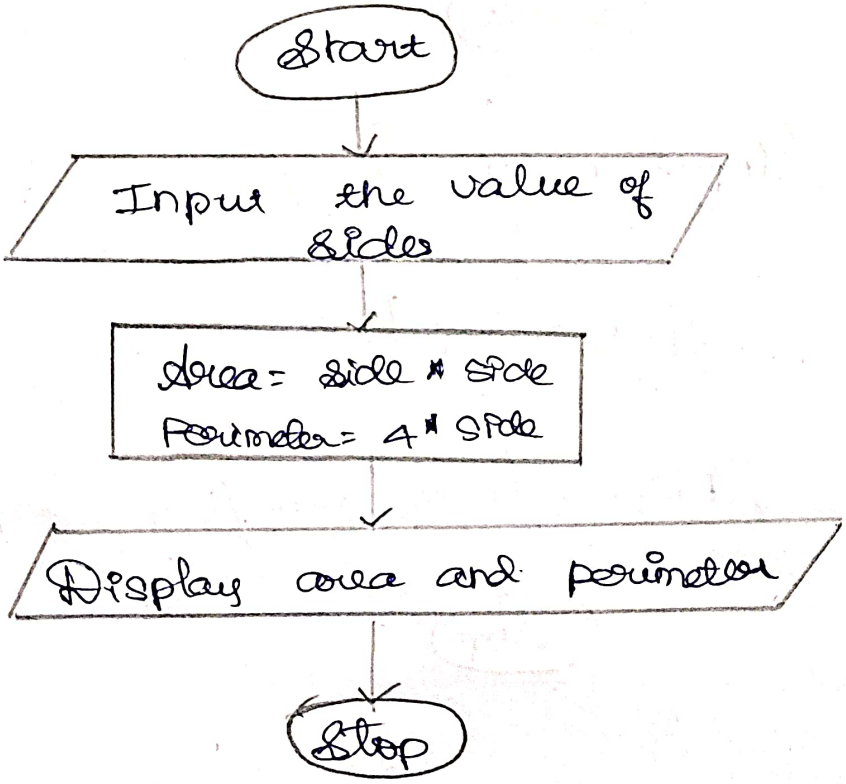
Step 3 → Area = side * side

Step 4 → perimeter = 4 * side

Step 5 → Display Area and perimeter

Step 6 → Stop

Flowchart:



Ex NO: 2

write an Algorithm and draw a flowchart to convert the given days into years & months

Algorithm:

Step 1: Start

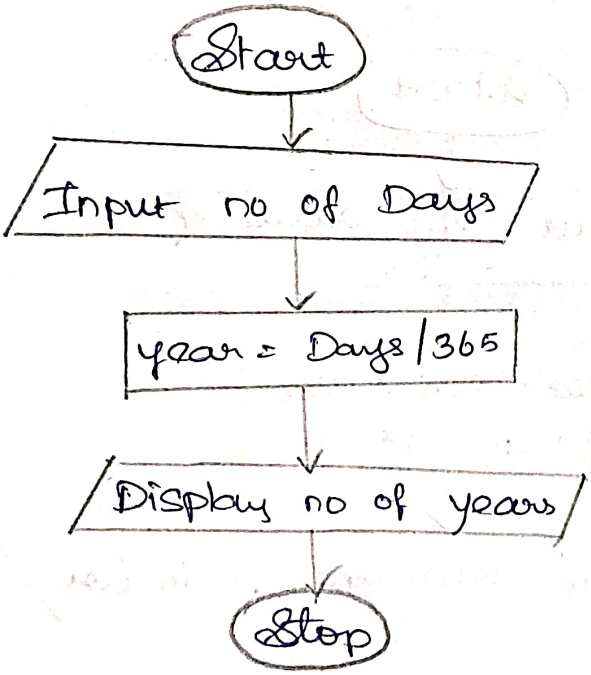
Step 2: Get the no of Days

Step 3: Days to year = No of days / 365

Step 4: Display no of years

Step 5: Stop

Flowchart:



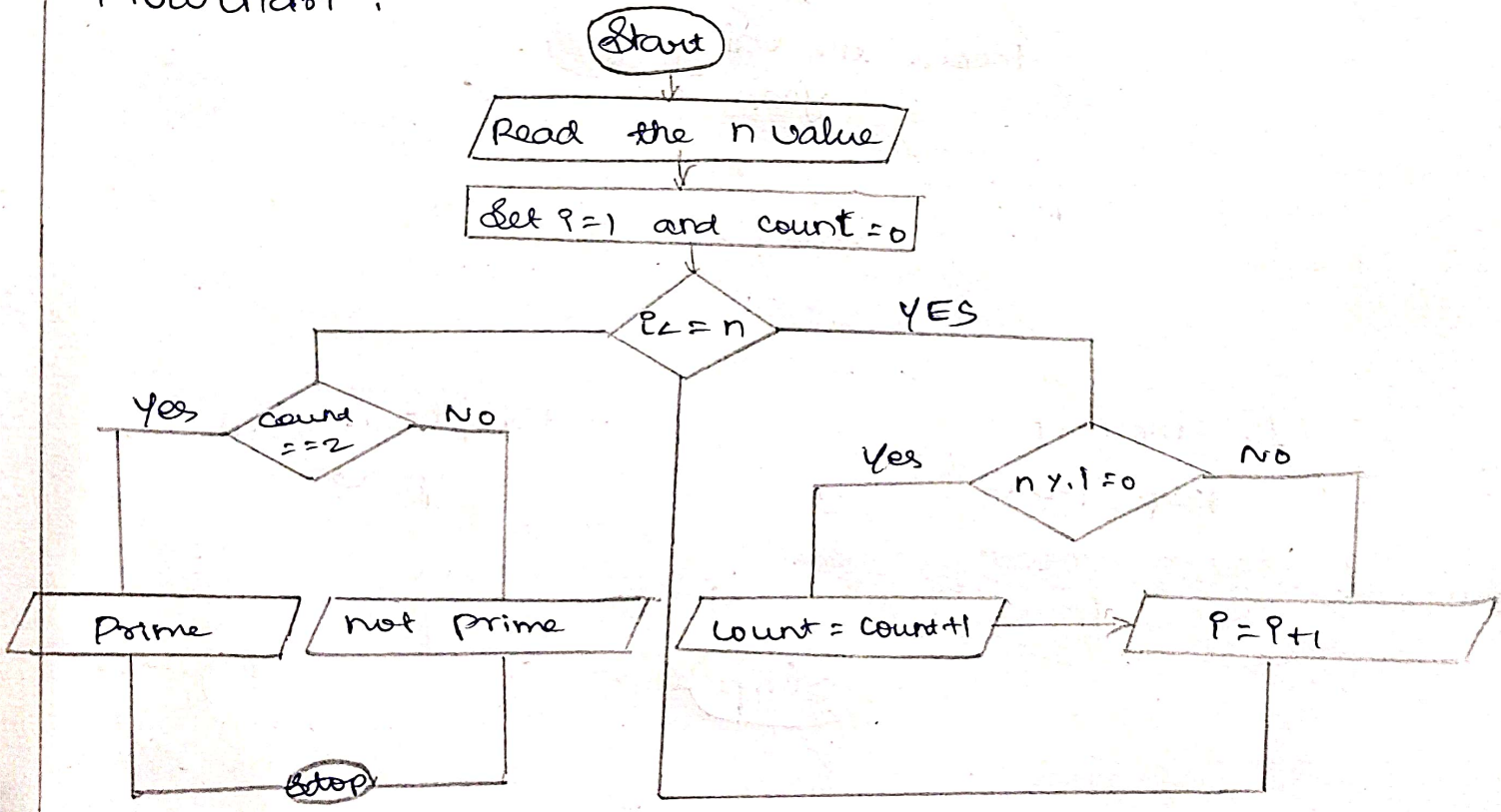
Ex no: 3

Write an algorithm and draw a Flowchart to check whether give number is prime or not

Algorithm:

Step 1 : Start
Step 2 : Read the value of n
Step 3 : Set i=1 , count=0
Step 4 : if i<=n , is true goto Step 5
Step 5 : check the condition n%.i==0 if true go to Step 6
Step 6 : Set count +=1
Step 7 : i=i+1 then go to Step 4
Step 8 : check the count , if it is 2 display prime or not
Step 9 : Stop

Flowchart :



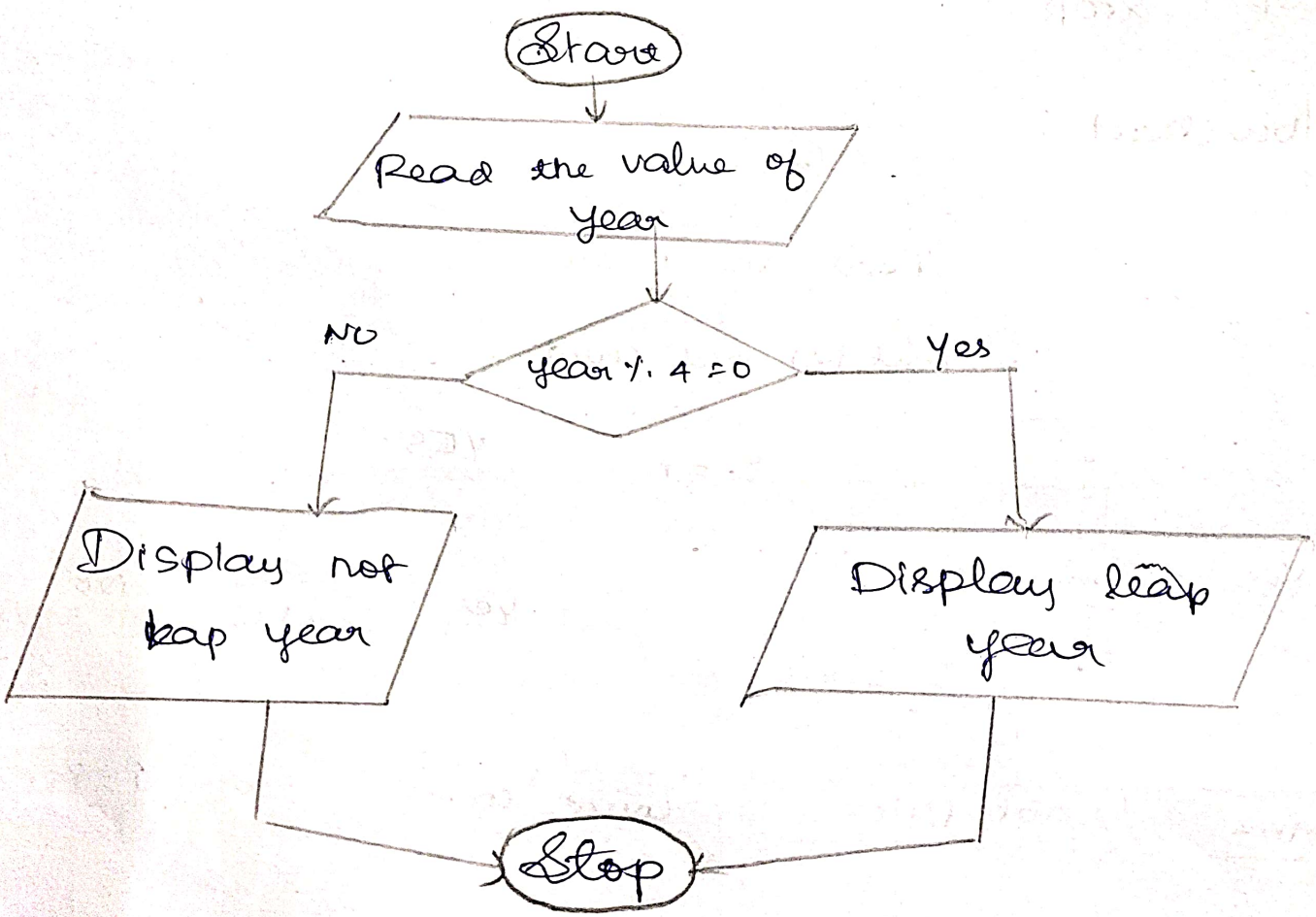
Ex no: 4

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

Algorithm:

Step 1: Start
Step 2: Read the value of year
Step 3: If (year % 4 = 0 AND year % 100 != 0)
Step 4: Display leap year
Step 5: Else Display not a leap year
Step 6: Stop

Flowchart:



Ex no: 5

Write an algorithm and draw a flowchart to check whether the given number is palindrome or not

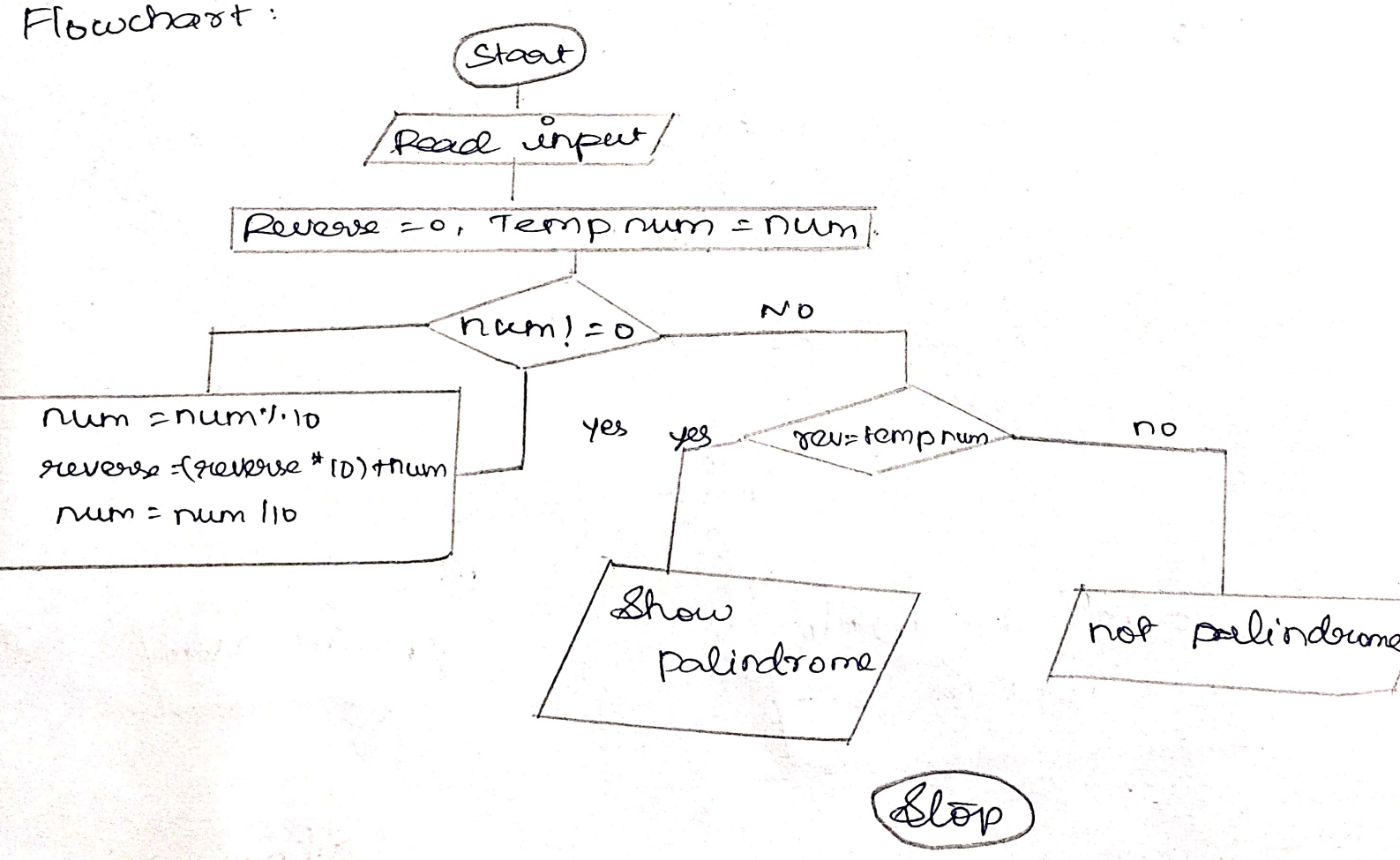
Algorithm:

Step1 : Start
Step2 : Read the input
Step3 : Declare variable, Reverse and temp num = num
Step4 : Start while loop till num1 = 0 is false

num = num % 10
reverse = (reverse * 10) + num
num / = 10

Step5 : If reverse == temp num
Step6 : If true, display palindrome, else not a palindrome
Step7 : Stop

Flowchart:



Ex no: 6

Write an algorithm and draw a flowchart to Calculate the sum of digit in the given number

Algorithm:

Step 1: Get the number

Step 2: Declare variable: Total, Initialize total

Step 3: Using while loop. If the no is greater than zero Get the last digit by modulus operator and add the digit to total

Step 4: If the number is less than zero, use absolute value

Step 5: Using '/' operator and divided by 10 to get the first digit of the given number

Step 6: Display total

Step 7: Stop

Flowchart: