

Ex. No.: 1

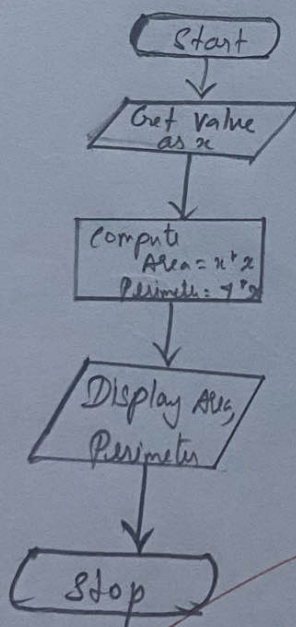
Date: 29/10/21

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: Get the side value of the square as x
Step 3: Compute by using the formula $\text{Area} = x^2$ and $\text{perimeter} = 4 \times x$
Step 4: Display Area, Perimeter
Step 5: Stop

Flowchart:*P. J. R.*

Ex. No.: 2.

Date: 29/10/24

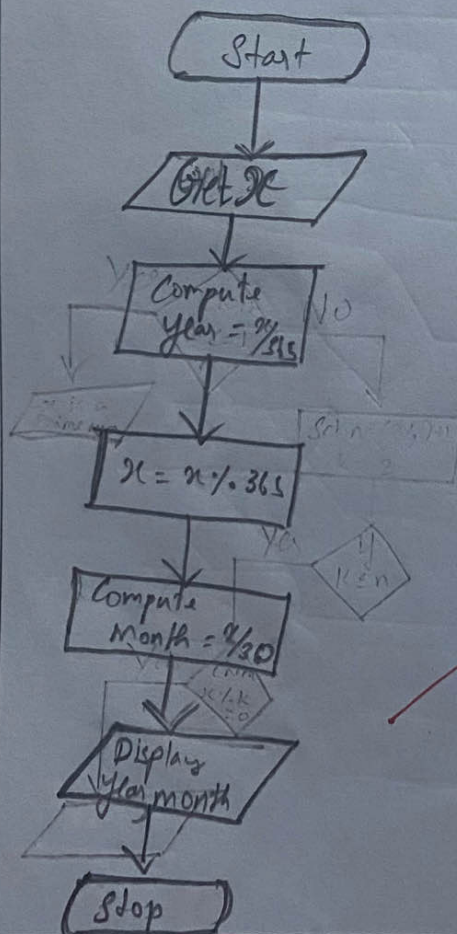
Days to Year Conversion

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

Algorithm:

- Step 1: Start
 Step 2: Get no. of days as x
 Step 3: Compute by using the formula $\text{year} = x/365$
 Step 4: $x = x \% 365$
 Step 5: Compute by using the formula $\text{month} = x/30$
 Step 6: Display year, month
 Step 7: Stop

Flowchart:



Ex. No.: 3

Date: 24/10/24

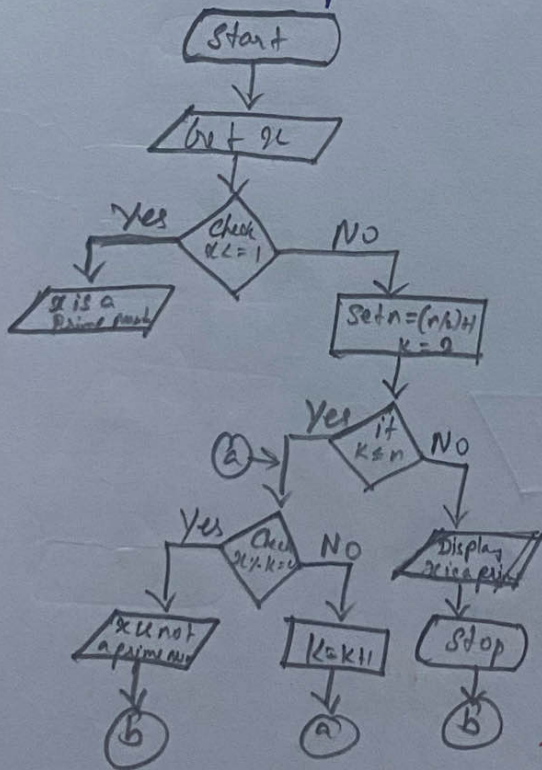
Prime Number

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

Algorithm:

- Step 1: Start
 Step 2: Get a number from the user as x
 Step 3: Check whether $x \leq 1$, otherwise goto 5
 Step 4: Display x is not a prime number
 Step 5: Set $n = (x/2) + 1$, $k = 2$
 Step 6: if $k \leq n$, otherwise goto 10
 Step 7: Check $x \% k = 0$, otherwise goto 9
 Step 8: Display x is not a prime number, goto 11
 Step 9: $k = k + 1$, goto 6
 Step 10: Display x is a prime number
 Step 11: Stop

Flowchart:



RPR

Ex. No.: 7

Date: 29/10/24

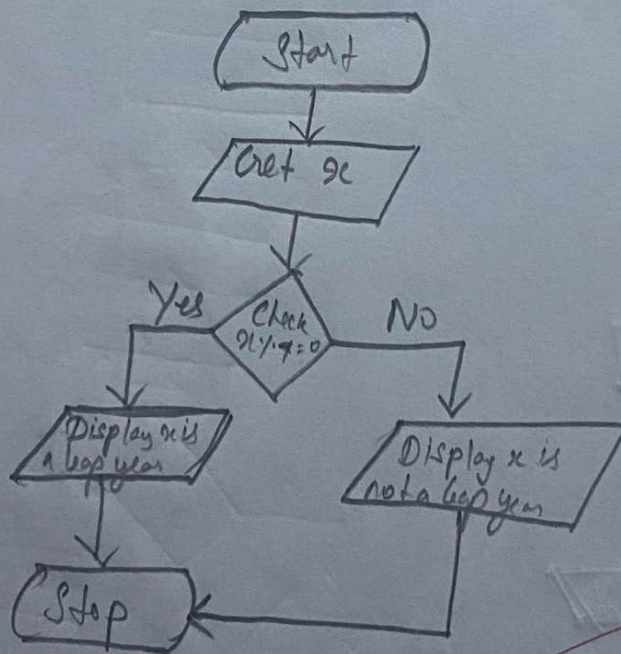
Leap Year

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

Algorithm:

- Step 1: Start
Step 2: Get the year from the user as x
Step 3: Check whether $x \% 4 = 0$, otherwise goto 6
Step 4: Display x is a leap year, goto 7
Step 5: Display x is not a leap year
Step 6: Stop

Flowchart:

P2R

Ex. No.: 5

Date: 24/10/24

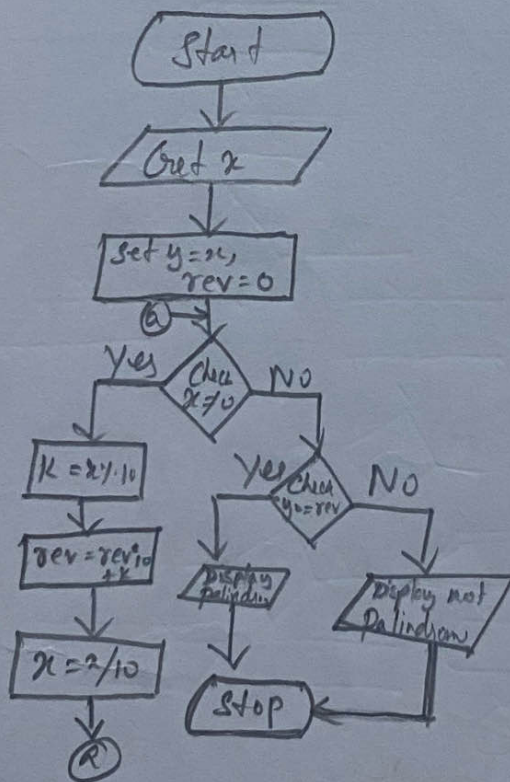
Palindrome Number

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

Algorithm:

- Step 1: Start
 Step 2: Get a number from the user as x
 Step 3: Set $y = x$, $rev = 0$
 Step 4: Check whether x is not equal to 0, otherwise goto 8
 Step 5: Compute $k = x / 10$
 Step 6: $rev = rev * 10 + k$
 Step 7: $x = x / 10$, goto 4
 Step 8: Check whether $y == rev$, otherwise goto 10
 Step 9: Display given number is palindrome, goto 11
 Step 10: Display given number is not a palindrome
 Step 11: Stop

Flowchart:



Ex. No.: 6

Date: 29/10/24

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: Get the number from the user as x
Step 3: Set $k = 0$
Step 4: Check whether x is not equal to 0, go to 8
Step 5: Compute $y = x \% 10$
Step 6: $k = k + y$
Step 7: Compute $x = x / 10$ go to 4
Step 8: Display k
Step 9: Stop

Flowchart:

