Ex. No.: I

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Date: 22 10 24

Calculate Area and Perimeter

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

Algorithm:

Step 1: Start

Step 2: Read S value

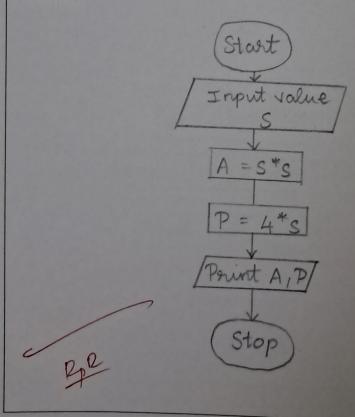
Step 3: Calculate area of the square using the formula A = S*S

Step 4: Print A.

Step 5: Calculate perimeter of the square using the formula p = 4 s.

Step 6: Print P

Step 7: Stop.



Ex. No.: 11

Date: 28 10/24

Days to Year Conversion

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

Algorithm:

Step 1: Start

Step 2: Read a value for days

Step 3: Calculate year value using the formula year = days/365?

Step 4: Calculate month value using the formula month = (days - year *365)/30

Step 5: Print year.

Step 6: Print month

Step 1: Flowchart: Stop.

Ex. No.: 111

Date: 78/10/24

Prime Number

Write an Algorithm and draw a Flowchart to check whether the given number is Prime

Algorithm:

Step1: Start

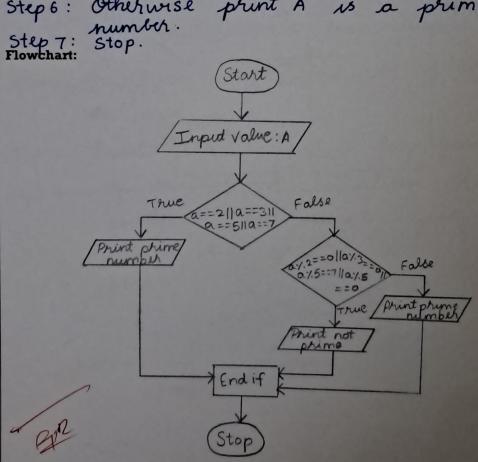
Step2: Read A value

Step 3: Check if A is 2,3,5 or 7. Print A is

a prime number.

Step 4: Check if when A is divided by 2,3,5 on 7, the remainder is 0.

Step 5: Print A is not a prime number step 6: Otherwise print A is a prime number number.



Ex. No.: 11

Date: 28/10/24

Leap Year

Write an Algorithm and draw a Flowchart to check whether the given year is Leap

Algorithm:

Stepi: Start

Step 2: Read year value

Step 3: Check if when year is divided by 400 the remainder is 0.

Step 4: Print year is a leap year.

Step 5: otherwise check if year is divisible by four and not divisible by 100.

Step6: Print year is a leap year.

Flowchart:

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Step 7: Otherwise check if year is divisible by 100.

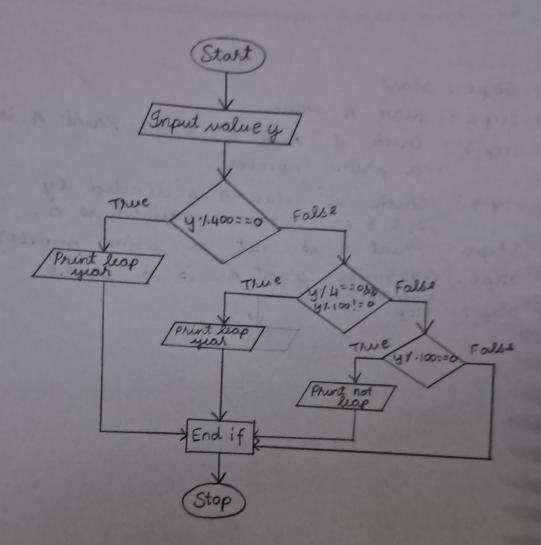
Step 8: Print year is not a leap year.

Step 9: If the above conditions are not satisfied then print year is not a leap year.

Step 10: Stop.



FLOWCHART:



Ex. No.: V

Date: 78/10/24

Palindrome Number

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

Algorithm:

Step1: Start

Step 2: Initialise variables Reversed = 0, Q, n, r.

Step 3: Read an input value n.

Step 4: Sove n to Q.

Step 5: If n is not or, then calculate r

using the formula r = n%10.

Step 6: Calculate Reversed using the formula

Flowchart: Reversed = Reversed *10 + r.

Step 7: Calculate n using n = n/10.

Step 8: Repeat step 5, Step 6 till n excomes o.

Step 9: When n=0, check if Q is equal to Reversed.

Step 10: Print the number is a palindrome.

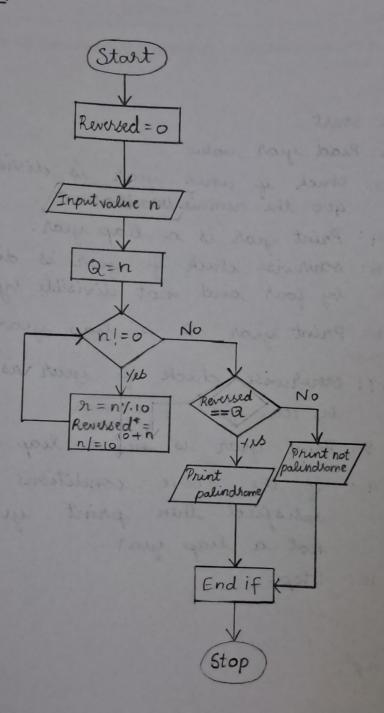
Step 11: Otherwise print the number is

not a palindrome.

Step 12: Stop.

PPR

FLOWCHART ;



Ex. No .: VI

-3

Date: 28/10/24

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: Declare sum = 0, rem = 0.

Step 3: Read a value n

Step 4: When n is greater than 0, calculate run using run = n/.10.

Step 5: Calculate Sum using Sum = Sumfrem.

Step 6: Calculate n using the formula

n = n/10.

Step 7: Repeat steps 4 and 5 till n

becomes less than o.

Step 8: Print sum.

Stup 9: Stop.

FLOWCHART:

