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

Algorithm:

→ Step 1 : Input the values a, b + c

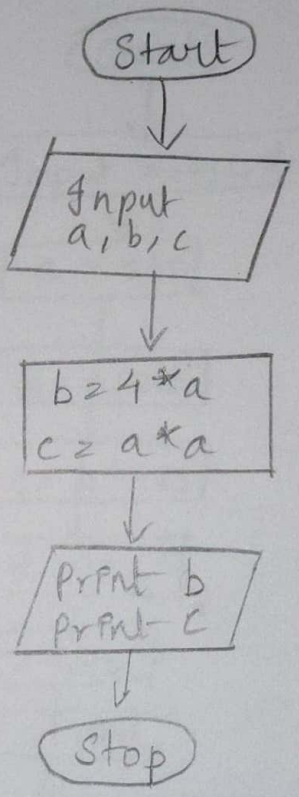
→ Step 2 : Enter the side of the square

→ Step 3 : Calculate the perimeter of square

→ Step 4 : Calculate the area of the square

→ Step 5 : Print the output

Flowchart:



Ex. No.: Date:

Days to Year Conversion

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

Algorithm:

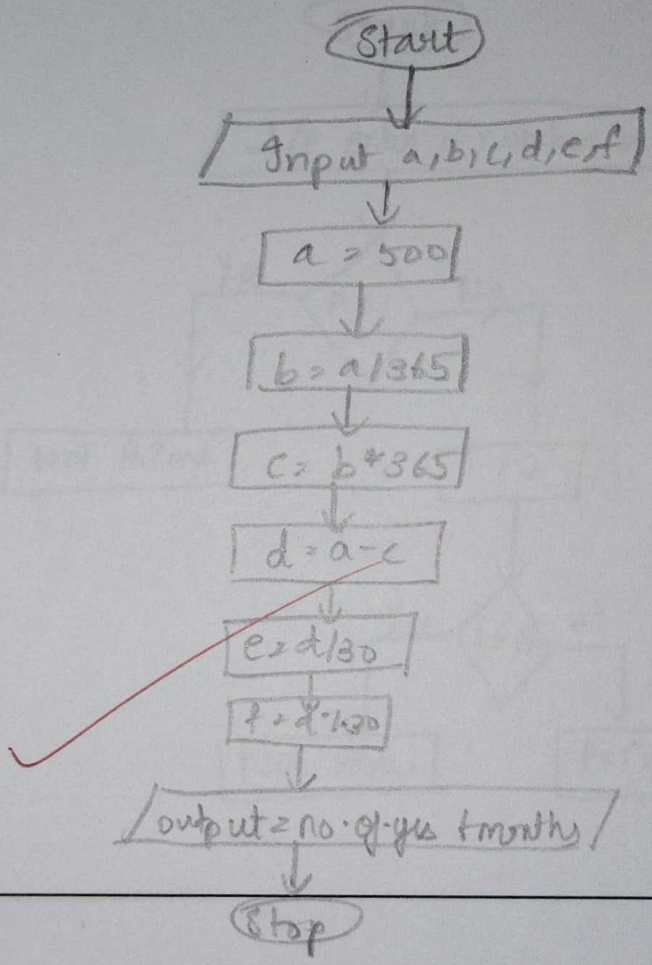
Step 1 : Input → a, b, c, d, e, f

Step 2 : Process → Enter the no. of. days

Step 3 :- Process → b = a / 365 → c = b * 365 → d = a - c
→ e = d / 30 → f = d % 30

Step 4 : output → no. of. years and months

Flowchart:



Ex. No.: Date:

Prime Number

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

Algorithm:

Step 1 → Input a number n

Step 2 → If $n <= 1$, then it is not a prime number

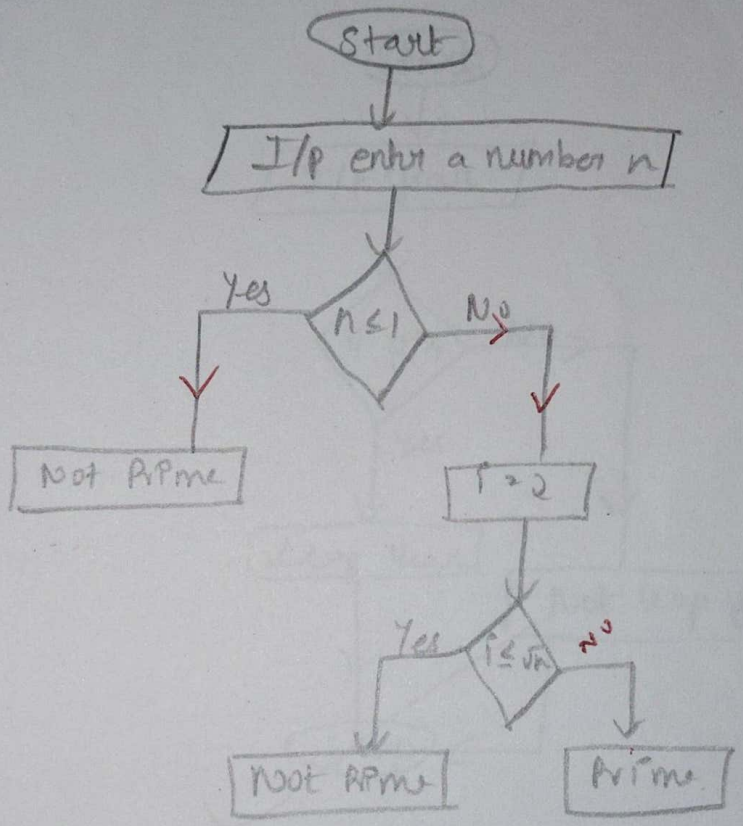
Step 3 → for $i = 2$ to $\sqrt{n}$

Step 4 → if no divisor were found in step3, n is prime

Step 5 → if divisor were found in Step 3, n is not prime

Step 6 → O/p whether n is prime or not

Flowchart:



Ex. No.: Date:

Leap Year

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

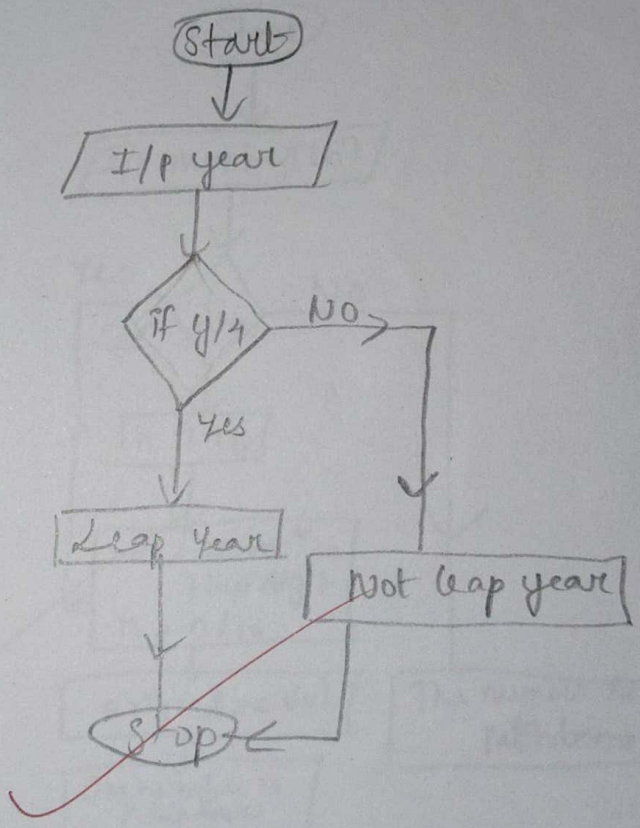
Algorithm:

Step 1 → Input year

Step 2 → check divisibility

Step 3 → Output

Flowchart:



Ex. No.: Date:

Palindrome Number

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

Algorithm:

S-1 → Input the number

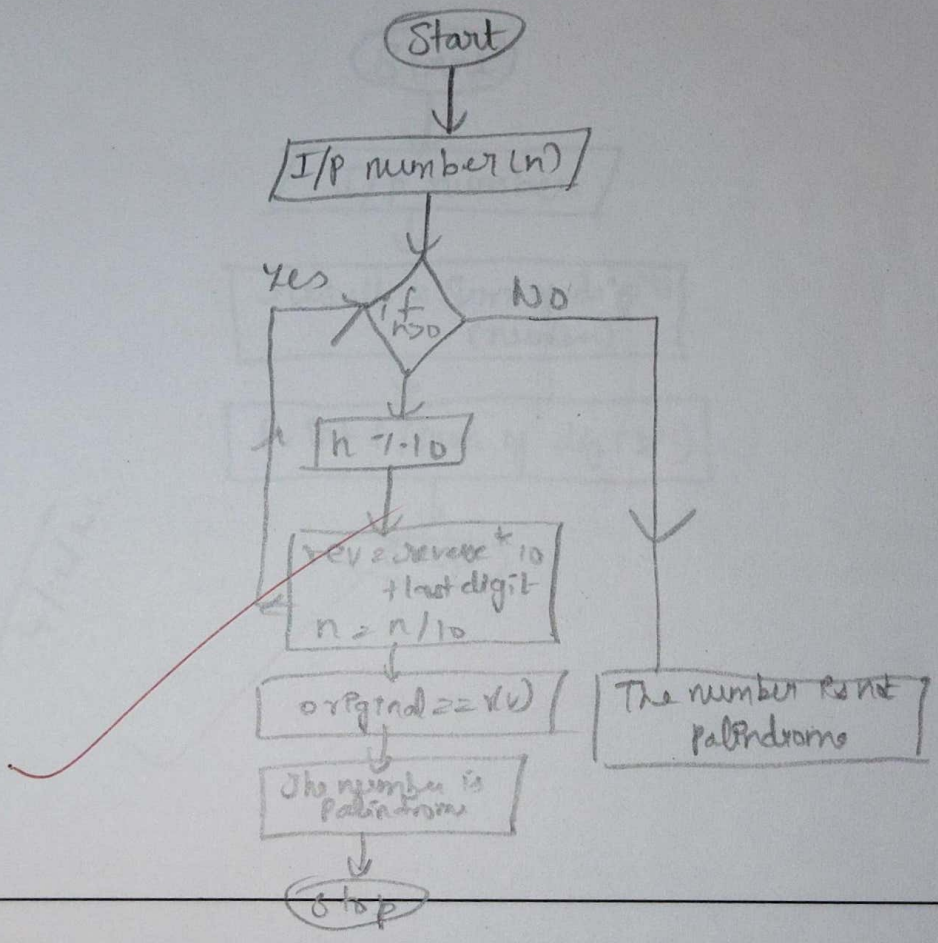
S-2 → Initialize variables

S-3 → Reverse the number

S-4 → check original is equal to reversed

S-5 → output

Flowchart:



Ex. No.: Date:

Sum of Digits

Write an Algorithm and draw a Flowchart to calculate the sum of digits in the given number.

Algorithm:

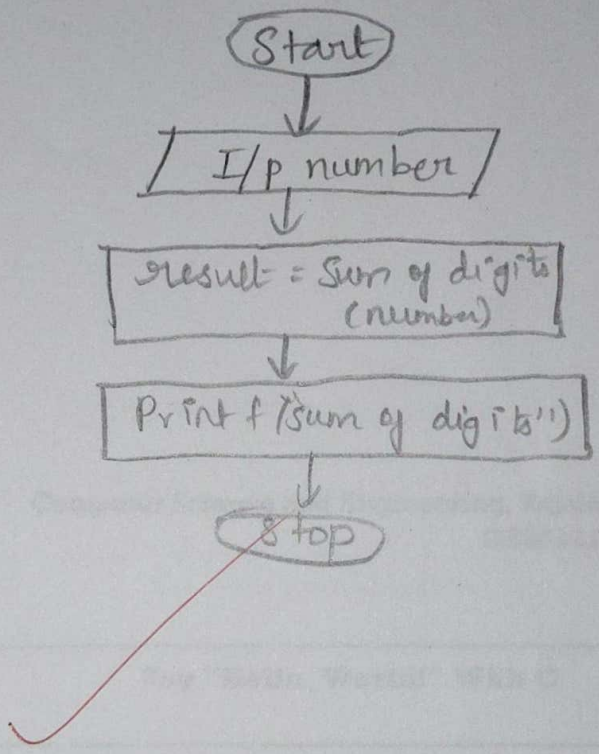
Step-1 : I/P number

Step-2 : Initialize sum

Step-3 : Loop to calculate sum

Step 4 : Output

Flowchart:



C. Ponk. 4/12/24.