

A stylized illustration of a grey elephant's head and trunk, facing right. It has a pink nose, a black eye, and a yellow triangular ear. A yellow rectangular pattern with a pink and white zigzag border is on its forehead. The background is teal with various colorful shapes: a pink blob in the top left, a yellow and red starburst in the top right, a yellow and red starburst in the bottom left, and a yellow and red blob in the bottom right.

COGNIZANCE TASK-2

BY
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Problem-1

Write pseudocode and flowchart for a program that outputs 'True' if a given number is divisible by 3 and 'False' otherwise, without using the '%' operator explicitly (like $N \% 3 == 0$).

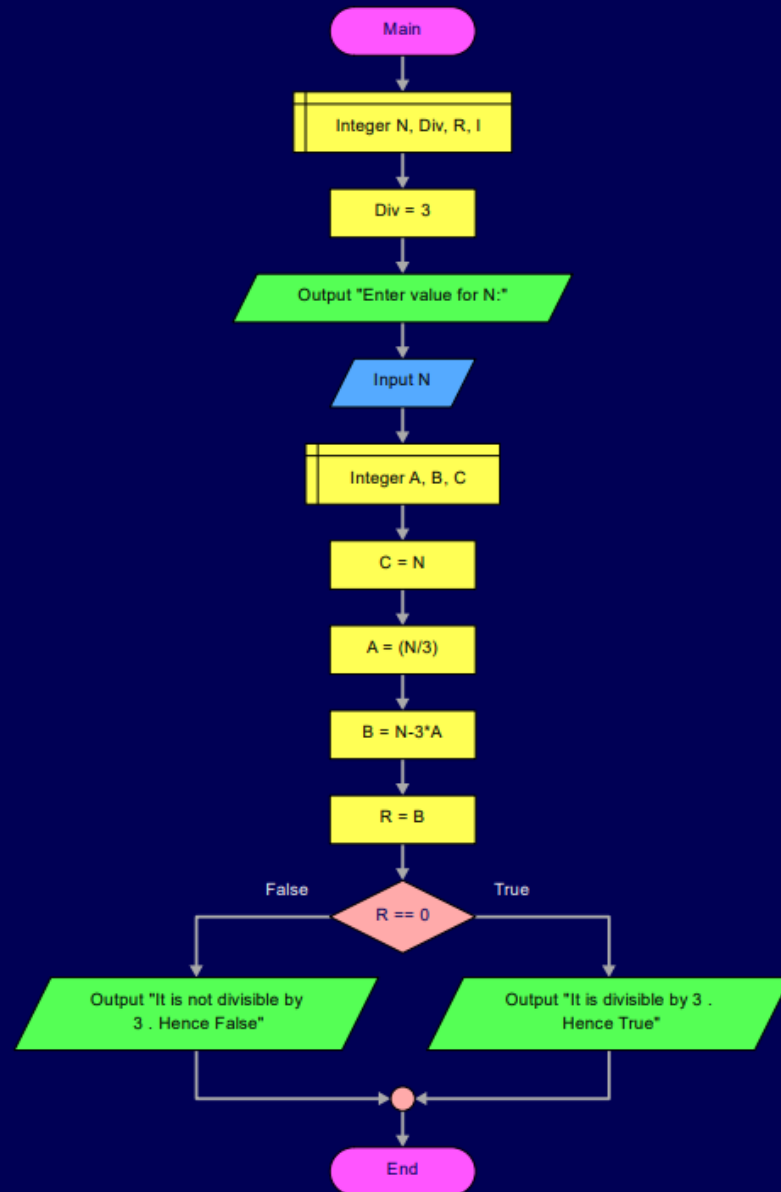
Problem-2

Write pseudocode and flowchart for program that prints Nth fibonacci number. (Nth Fibonacci Number denoted as $F(N)$, $F(0)=0$, $F(1)=1$, $F(2)=1$, $F(3)=2, \dots$)





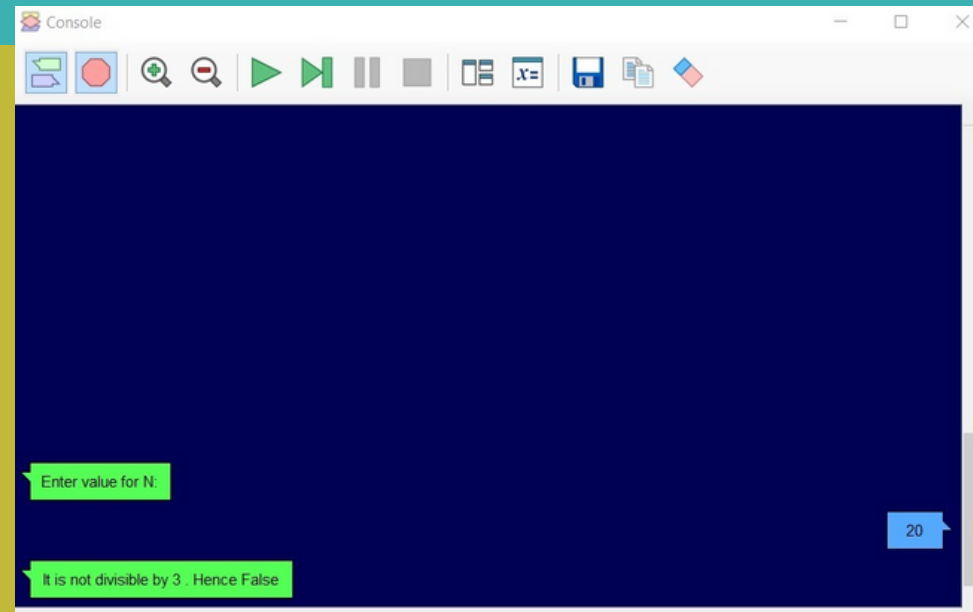
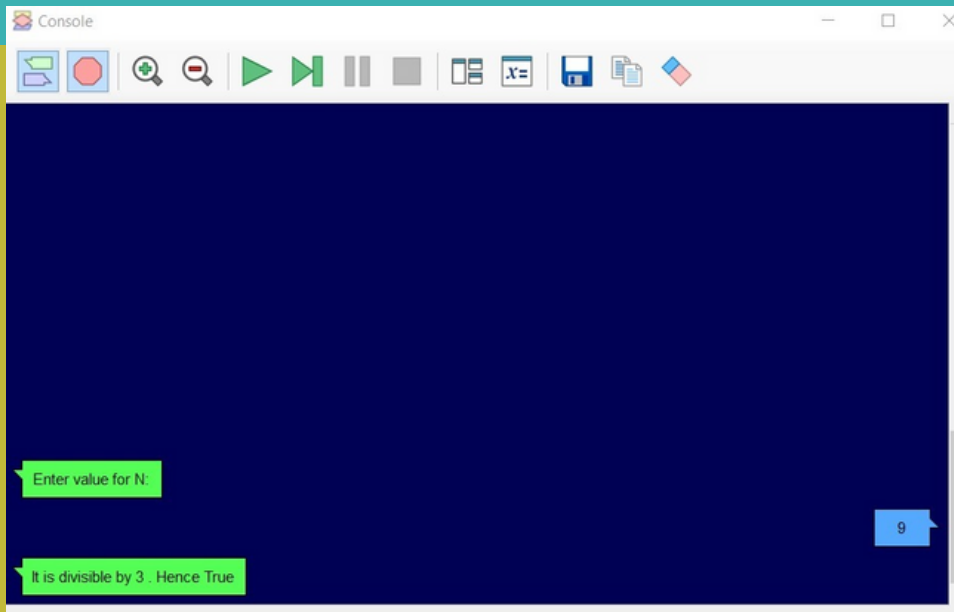
PROBLEM-1



CONSOLE WINDOW

IF TRUE

IF FALSE



T H E S E A R E T H E E X P E C T E D O U T P U T S

PROBLEM-1 (txt)

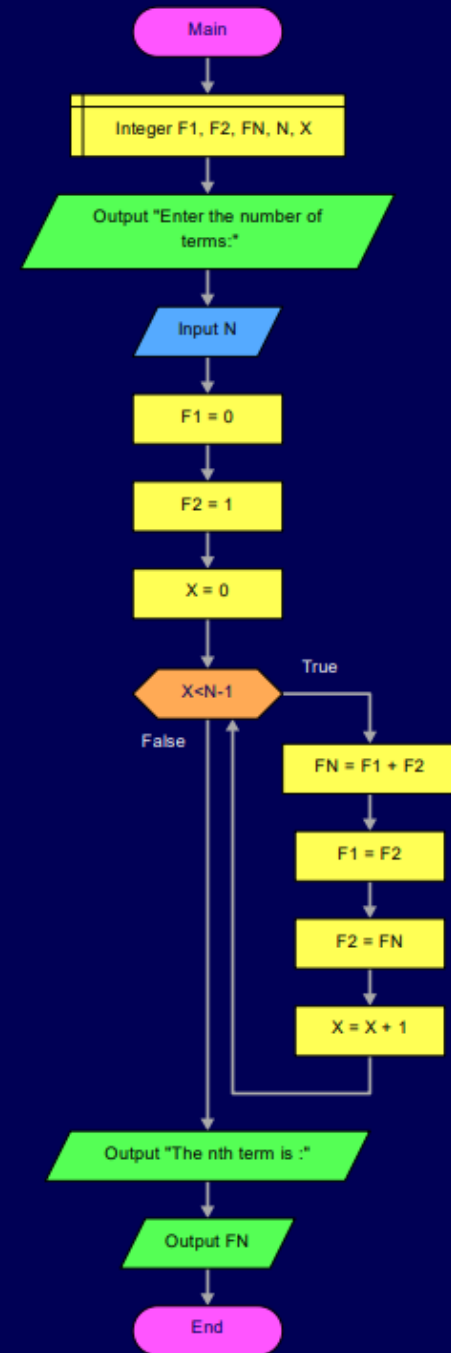
```
Problem--1 - Notepad
File Edit Format View Help
Function Main
    Declare Integer N, Div, R, I

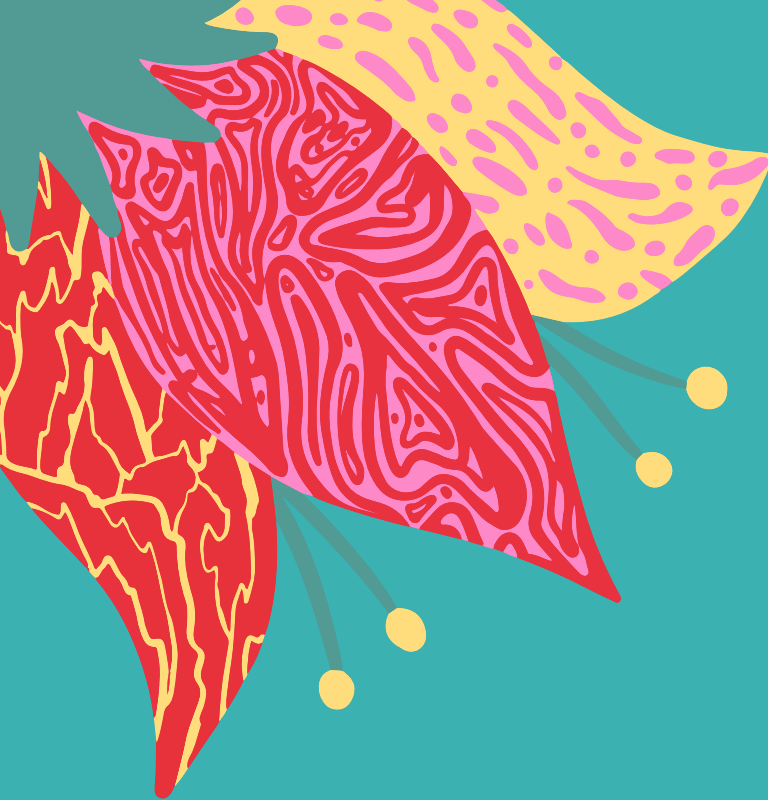
    Assign Div = 3
    Output "Enter value for N:"
    Input N
    Declare Integer A, B, C

    Assign C = N
    Assign A = (N/3)
    Assign B = N-3*A
    Assign R = B
    If R == 0
        Output "It is divisible by 3 . Hence True"
    False:
        Output "It is not divisible by 3 . Hence False"
    End
End
```

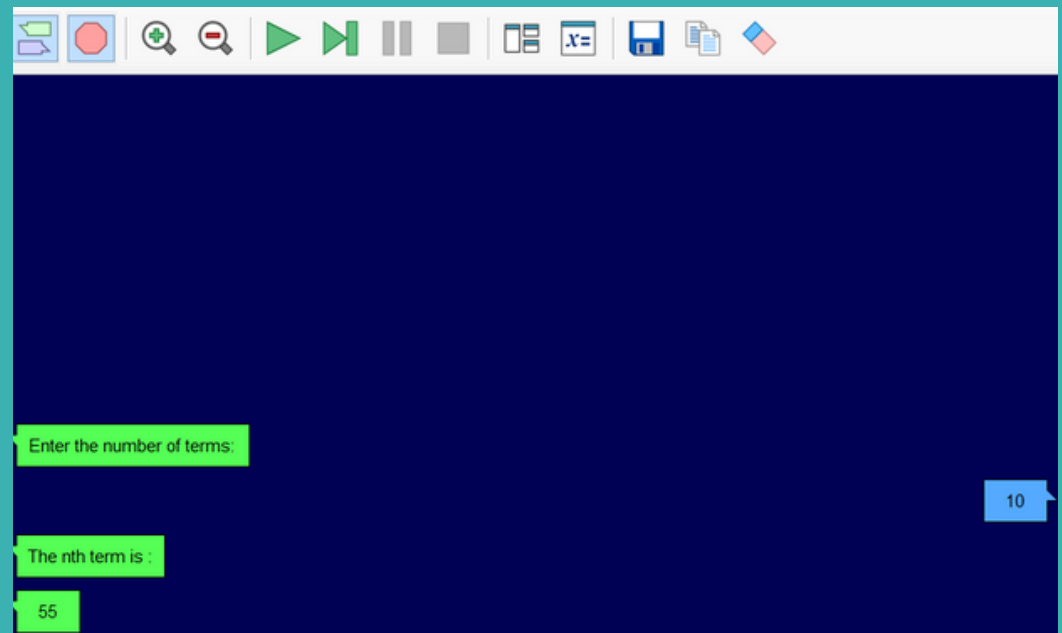
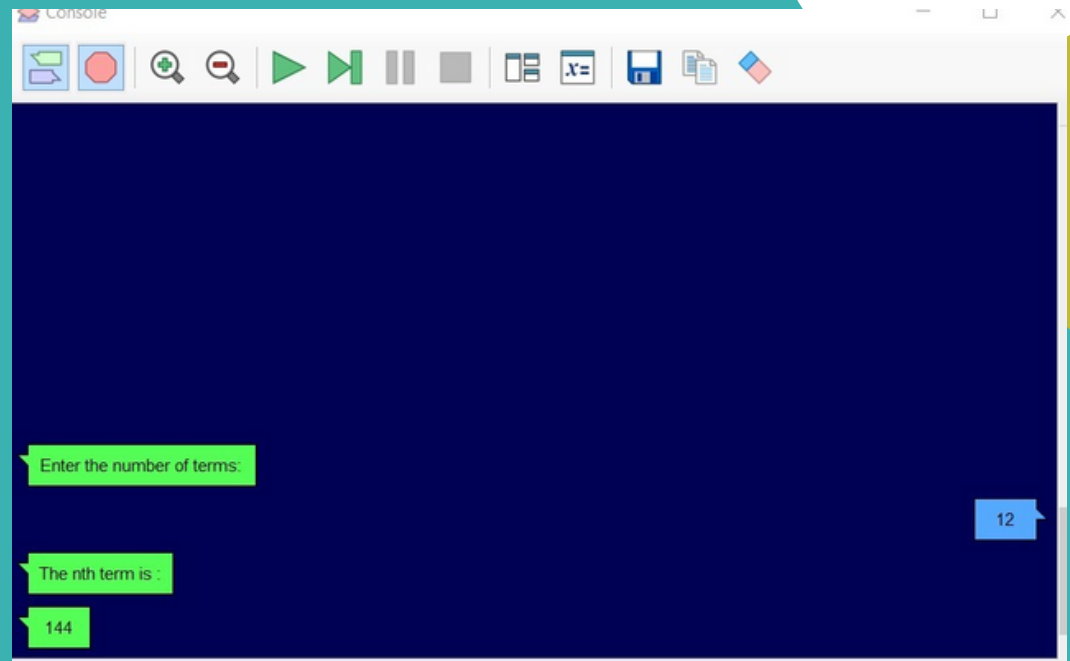


PROBLEM-2





CONSOLE WINDOW



PROBLEM- 2(txt)



```
Problem-2 - Notepad
File Edit Format View Help
Function Main
    Declare Integer F1, F2, FN, N, X

    Output "Enter the number of terms:"
    Input N
    Assign F1 = 0
    Assign F2 = 1
    Assign X = 0
    While X<N-1
        Assign FN = F1 + F2
        Assign F1 = F2
        Assign F2 = FN
        Assign X = X + 1
    End
    Output "The nth term is :"
    Output FN
End
```


**THANK
YOU!**

