

CHIANG MAI UNIVERSITY

College of Arts, Media and Technology 1st Semester / Academic Year 2025

960101 Fundamentals of Programming Logic in Digital Industry

Lab Assignment 0:	: More N	Vested	Loop
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Ohiectives:			

- 1) The student understands the concept of Nested Loop
- 2) The student can appropriately choose and apply the control structure.

Note that the nested structure must be used.

Problems sets

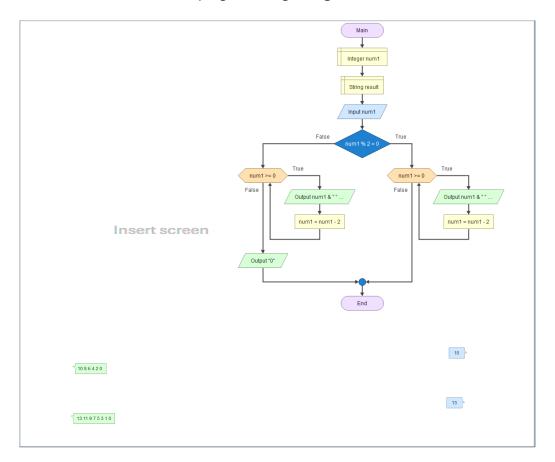
1. Develop a program to accept an integer from the user and output a series of numbers decreasing by 2 until the value reaches 0.

For example,

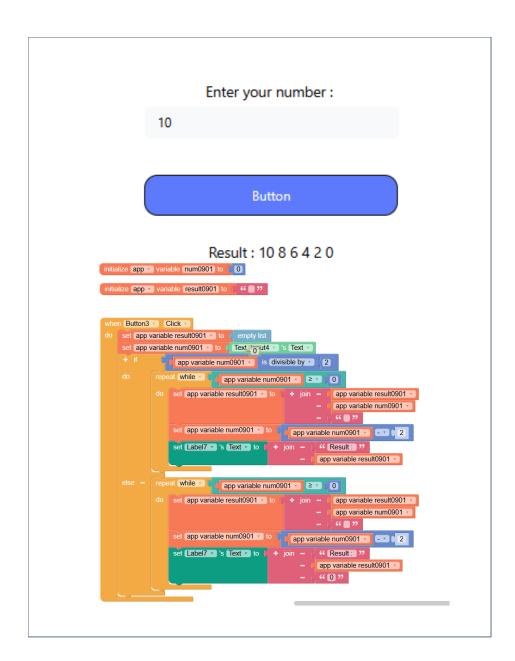
If the user inputs 10, the program will display 10 8 6 4 2 0

If the user inputs 13, the program will display 13 11 9 7 5 3 1 0

1.1 Draw a flowchart of the program using Flowgorithm.



1.2 Develop the program in **Thunkable** (Always create new screen!!).

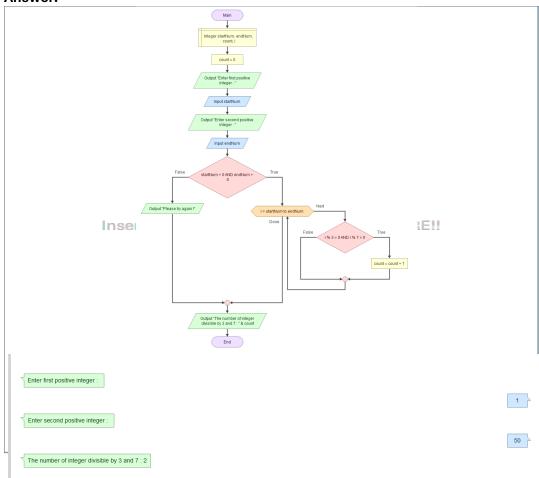


2. Create a program to receive 2 positive integer numbers from user and count the number between the input numbers that is divisible by 3 and 7.

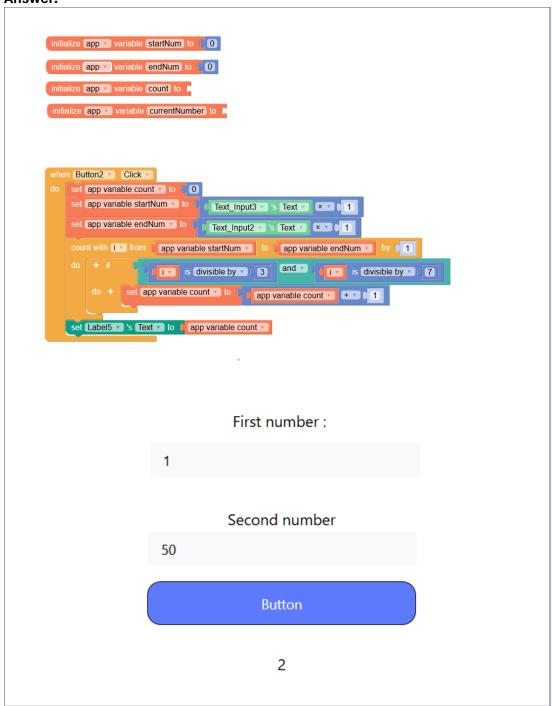
For example,

If the user inputs 1 and 50, the program will display 2. (21 and 42 are divisible by 3 and 7)

2.1 Create a flowchart on Flowgorithm.



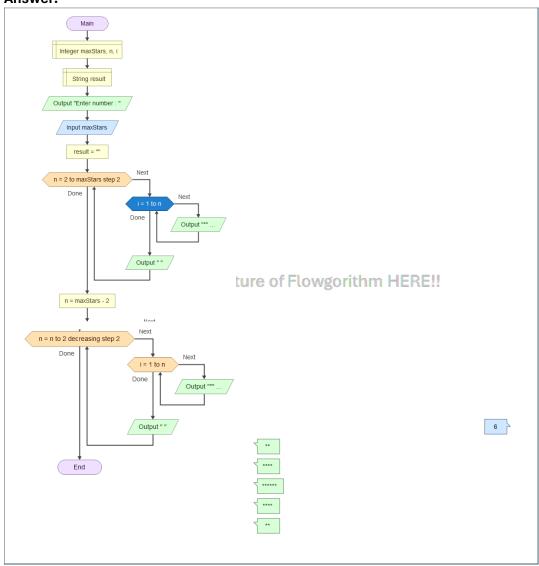
2.2 Create a program on **Thunkable**.



3. Create a program to display a triangle with lines of *. The user needs to input the number of maximum *. Then the output will display lines of * only the even number of *. For example, if the user input 6, the program will display

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3.1 Create a flowchart on Flowgorithm.



3.2 Create a program on **Thunkable**.

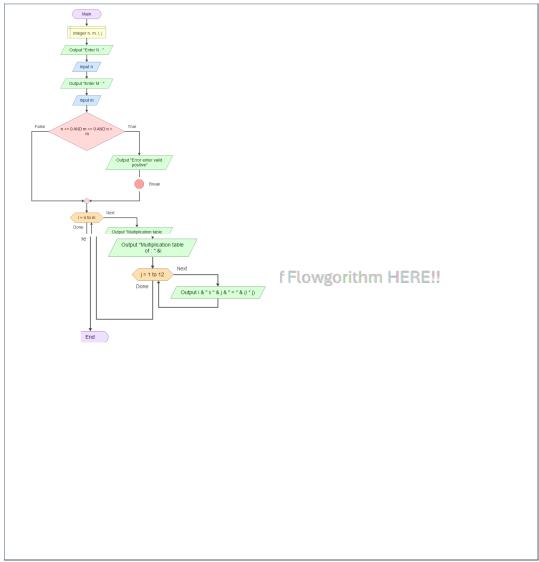
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****
                              *****
                              ****
                         Enter number
               6
                             Button
Insert corean conture of Thunkahla HEDEII
      initialize app • variable maxstar to 1
      initialize app • variable n to
          do count with app variable n from 1 to i by 1
                set Label9 * 's Text * to | + join - | Label9 * 's Text *
              set Label9 · 's Text · to
                                  + join - ( Label9 · 's Text ·
          set i • to app variable maxstar • • 2
           count with in from in to 2 by -2
              count with app variable n • from 1 to 1 by 1
                 set Label9 · 's Text · to | + join - Label9 · 's Text ·
              set Label9 's Text to + join - Label9 's Text
```

4. Create a program to receive 2 positive integer numbers from user as N and M then display a multiplication table of N to M.

For example N = 2, M = 4

Remark: you can display multiplication table in any format

4.1 Create a flowchart on **Flowgorithm.**



4.2 Create a program on Thunka

