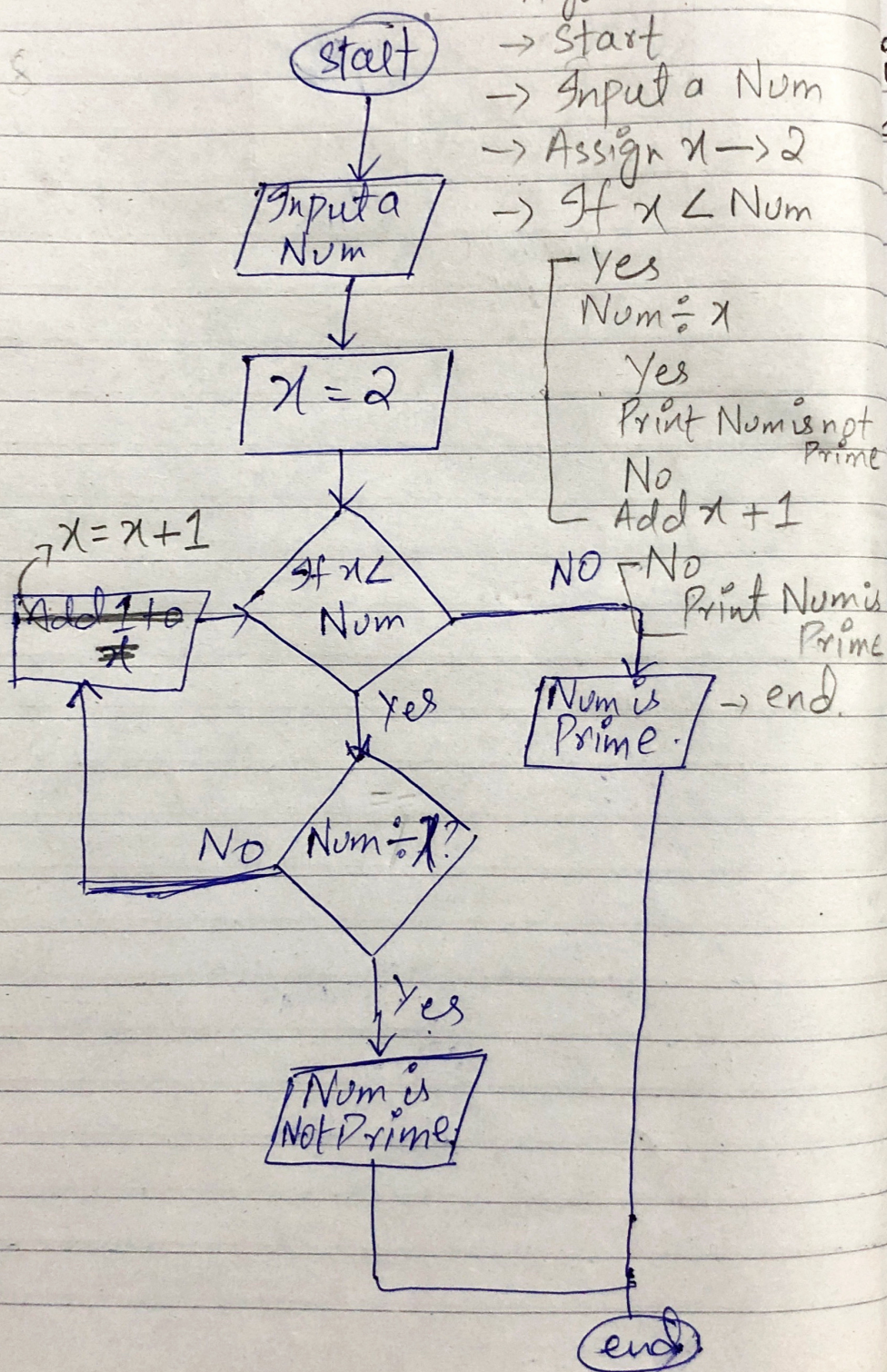


Q.6 Write Algorithm & flowchart to find if a number is prime or not.

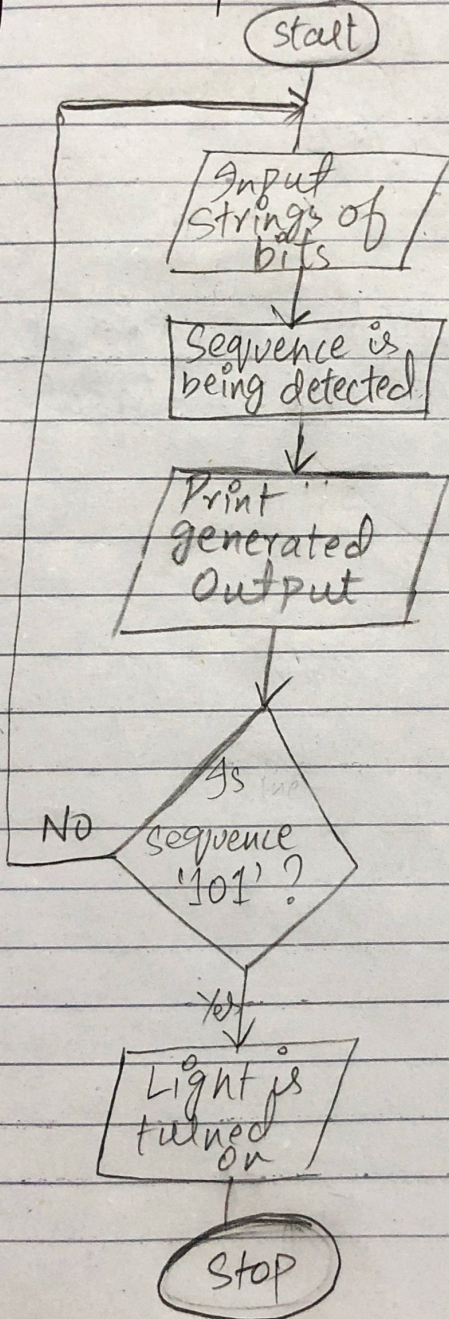
Algorithm:

- Start
- Input a Num
- Assign $x \rightarrow 2$
- If $x < \text{Num}$



10101010

Q.7
Write an algorithm for a software program that detects an input that is a serial bit stream. The pattern to detect is a "101" sequence. When this sequence is detected, a light is turned on and the program stops. Also design its flowchart.



Algorithm.

- step 1: start
- step 2: Input the strings of bit
- step 3: Print the generated output
- step 4: Is the sequence '101'?
- step 5: If Yes then light is turned on else input strings of bit again.
- step 6: end