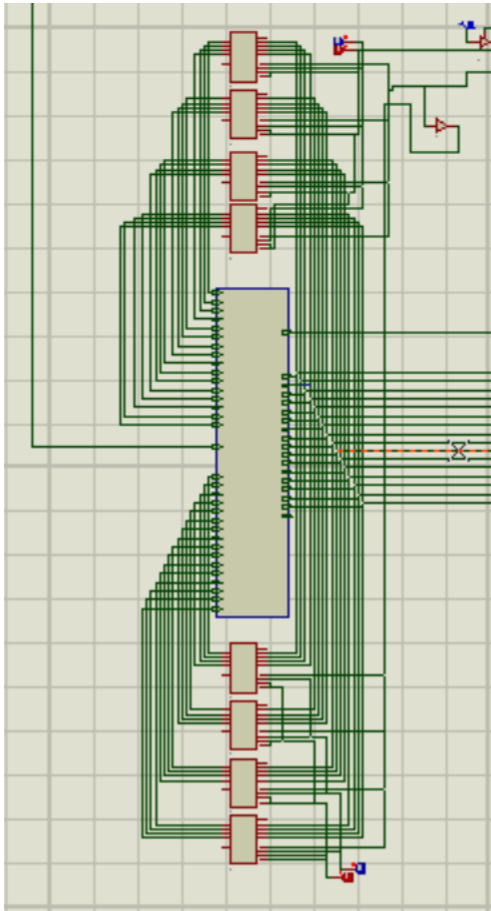


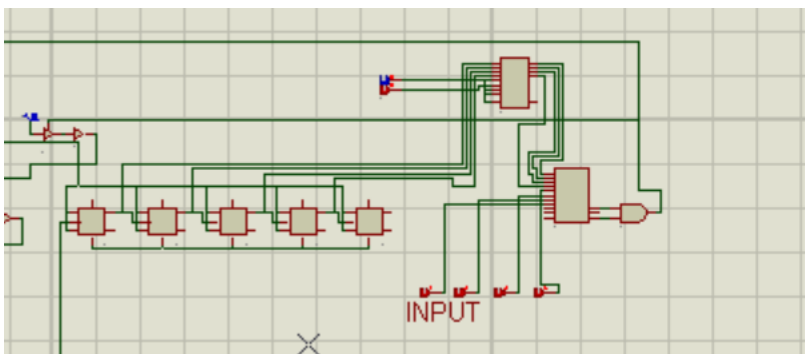
Working of the circuit :



This block is basically the adder unit and consists of two Types of registers. One that stores the value of previous level And other that stores the value of current level.

In positive clock cycle of the reference clock , the Registers On the upper side stores the value coming from adder and the one on lower side stores the value on negative side.

The adder unit takes input from these two blocks of registers.



This block is basically a counter and a comparator that counts the number of clocks elapsed and compares it to the input value. And if the value becomes equal , it stops the functioning of adder.