Ripple (Asynchronous) Counter

- A ripple counter is a cascaded arrangement of flip-flops where the output of one flip-flop drives the clock input of the following flip-flop.
- In a ripple counter, also called an *asynchronous counter or a serial* counter
- The clock input is applied only to the first flip-flop, also called the input flip-flop, in the cascaded arrangement.
- The output of the first flip-flop acts as the clock input to the second flip-flop, the output of the second flip-flop feeds the clock input of the third flip-flop and so on.
- In general, in an arrangement of n flip-flops, the clock input to the nth flip-flop comes from the output of the (n-1)th flip-flop for n>1.

