

Section - 5

Ques
Ans -

What changes must be made to 3 bit counter to make it a 4 bit Counter?

To make a synchronous 3 bit counter turn it to a 4 bit you have to add

another flip flop in your work where the 3rd flip flop goes to the 4th just as you wired the 2nd to the 3rd.

What is 3-bit synchronous Counter.

The 3-bit synchronous briefly up counters. Contains three J-Flip Flop & one 2-input AND gate.

All these flip flop & one 2-input AND triggered and the output of flip flop change.

affect synchronously. The T input of first and second and third flip flop are 1, 0, 0 & 0, 1, 0 respectively.

What is the 4 bit Counter.

A 4 bit Down Counter is a digitized counter circuits, which provides a binary 1111 to 0000.

This counter uses four D-type flip-flops, which are positive edge triggered output.

At each stage, the flip-flop feeds 111 inverted output (D) into 111 own data input (D)

which in latter synchronous or asynchronous.

Synchronous Counter is faster than asynchronous Counter in operation.

A synchronous counter is slower than Synchronous Counter.