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Introduction To Digital Electronics – Lesson 8: Design A 4-Bit Shift Register

HOMEWORK

The following homework questions are meant to go with the online lesson found here:
http://www.pyroelectro.com/edu/digital/shift_register/

HOMEWORK QUESTION 1

What type of flip-flop can we use to make a shift register? How does it work?

HOMEWORK QUESTION 2

How many D flip-flops would we need to build a 8-bit shift register? Why?

HOMEWORK QUESTION 3

What determines how fast the shift register shifts input and output? Can we make it go faster or slower?

HOMEWORK QUESTION 4

Draw a sketch of a 4-bit shift register using 4 d flip-flops.

ADDITIONAL INFORMATION

To get feedback on your homework or to ask additional questions related to this lesson, please post your homework answers or your questions in the online forums at:
<http://www.pyroelectro.com/forums/viewforum.php?f=21>