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* Module: FunRegister
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* Class: ECEN 220, Section 3, Fall 2020 - ECEN 220, Section 1, Winter 2020
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* Description: A loadable flip-flop design to create n-bit loadable registers.
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`default nettype none
module FunRegister(
   input wire logic CLK,
   input wire logic[3:0] DIN,
   input wire logic LOAD,
   output wire logic[3:0] Q,
   output wire logic[3:0] NXT
   );
   FDCE my ff1 (.Q(Q[3]), .C(CLK), .CE(1'b1), .CLR(1'b0), .D(NXT));
   FDCE my ff2 (.Q(Q[2]), .C(CLK), .CE(1'b1), .CLR(1'b0), .D(NXT));
   FDCE my ff3 (.Q(Q[1]), .C(CLK), .CE(1'b1), .CLR(1'b0), .D(NXT));
   FDCE my ff4 (.Q(Q[0]), .C(CLK), .CE(1'b1), .CLR(1'b0), .D(NXT));
   assign NXT = (LOAD)?DIN:Q;
   endmodule
```

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`timescale 1ns / 1ps