```
module datapath(location, colour, clock, resetn,
                load_x, load_y, load_colour, enable, x_out, y_out, colour_out);
   input [6:0] location;
   input [2:0] colour;
   input clock;
   input resetn;
   input load_x, load_y, load_colour;
   input enable;

   output [7:0] x_out;
   output [6:0] y_out;
   output [2:0] colour_out;

   reg [7:0] out_x;
   reg [6:0] out_y;
   reg [2:0] out_colour;

   always @(posedge clock)
   begin
      if(!resetn)
      begin
         out_x <= 8'b0;
         out_y <= 7'b0;
         out_colour <= 3'b0;
      end
      else
      begin
         if(load_x)
            out_x[6:0] <= location;
            out_x[7] <= 1'b0;
```