```
`timescale 1ns / 1ps
// Company:
// Engineer:
//
// Create Date: 11/03/2020 02:06:48 AM
// Design Name:
// Module Name: Edge Detector
// Project Name:
// Target Devices:
// Tool Versions:
// Description:
//
// Dependencies:
//
// Revision:
// Revision 0.01 - File Created
// Additional Comments:
//
module Edge Detector(
  input Btn, clk,
  output out
```

```
);
    wire t1;
    FDRE #(.INIT(1'b0)) Edge (.C(clk),
.R(1'b0), .CE(1'b1), .D(Btn), .Q(t1));
    assign out = Btn&~t1;
endmodule
```