```
`timescale 1ns / 1ps
// Company:
// Engineer:
// Create Date: 10/13/2020 06:08:33 PM
// Design Name:
// Module Name: Full Adder
// Project Name:
// Target Devices:
// Tool Versions:
// Description:
//
// Dependencies:
// Revision:
// Revision 0.01 - File Created
// Additional Comments:
module Full Adder(
  input A,
  input B,
  input Cin,
  output S,
  output Cout
  );
```

assign $S = A ^ (B ^ Cin);$

endmodule

assign Cout = (B & Cin) | (A & Cin) | (A & B);