```
`timescale 1ns / 1ps
// Company:
// Engineer:
module Full Adder( //Full Adder(cin,
[1:0] selct, s, cout)
   input cin,
   input [1:0] select, //select[0] = b,
select[1] = cin
   output s,
   output cout
   );
   wire [3:0] a0, a1;
   wire w0;
   assign a0[0] = cin, a0[1] = !cin,
a0[2] = !cin, a0[3] = cin;
   assign a1[0] = 0, a1[1] = cin, a1[2] =
cin, a1[3] = 1;
   //m4 1(.in[3:0], .sel[1:0], .out)
   m4 1 mltplx1(.in(a0), .sel(select),
.out(s));
```

```
m4_1 mltplx2 (.in(a1), .sel(select),
.out(cout));
endmodule
```