Experiment 6

Multiplexer:

Text

Description automatically generated

module Multiplexer\_4\_1(En,S,I,O);

input En;

input [1:0]S; //selection pin

input [3:0]I;

output reg O;

always @(En,I,S)

begin

if(En) O=0; //high enable e inactive so

else

begin

if(S==0) O=I[0];

else if(S==1) O=I[1];

else if(S==2) O=I[2];

else O=I[3];

end

end

endmodule

Timeline

Description automatically generated

Text

Description automatically generated

Timeline

Description automatically generated

Multiplex 3\*1:

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application, table

Description automatically generated