

VCD info: dumpfile test.vcd opened for output.

Starting Password Authentication Testbench...

Time=0 | user_input= x | enter=x | access_granted=0 | locked=0

Test 1: Correct password (1 2 3 4)

Time=2 | user_input= x | enter=1 | access_granted=0 | locked=0

Time=4 | user_input= 1 | enter=1 | access_granted=0 | locked=0

Time=6 | user_input= 2 | enter=1 | access_granted=0 | locked=0

Time=8 | user_input= 3 | enter=1 | access_granted=0 | locked=0

3

Time=10 | user_input= 4 | enter=1 | access_granted=0 | locked=0

Time=15 | user_input= 4 | enter=1 | access_granted=1 | locked=0

Test 2: Incorrect password (1 2 3 5)

Time=26 | user_input= 1 | enter=1 | access_granted=1 | locked=0

Time=28 | user_input= 2 | enter=1 | access_granted=1 | locked=0

Time=29 | user_input= 2 | enter=1 | access_granted=0 | locked=0

Time=30 | user_input= 3 | enter=1 | access_granted=0 | locked=0

Time=32 | user_input= 5 | enter=1 | access_granted=0 | locked=0

Test 3: Trigger lockout

Time=52 | user_input= 0 | enter=1 | access_granted=0 | locked=0

Time=73 | user_input= 0 | enter=1 | access_granted=0 | locked=1

Test 4: Reset and retry

Time=100 | user_input= 0 | enter=1 | access_granted=0 | locked=0

Time=120 | user_input= 1 | enter=1 | access_granted=0 | locked=0

Time=122 | user_input= 2 | enter=1 | access_granted=0 | locked=0

Time=124 | user_input= 3 | enter=1 | access_granted=0 | locked=0

Time=126 | user_input= 4 | enter=1 | access_granted=0 | locked=0

Testbench completed.

Time=167 | user_input= 4 | enter=1 | access_granted=0 | locked=1

pass_auth_tb.v:186: \$finish called at 206 (1s)