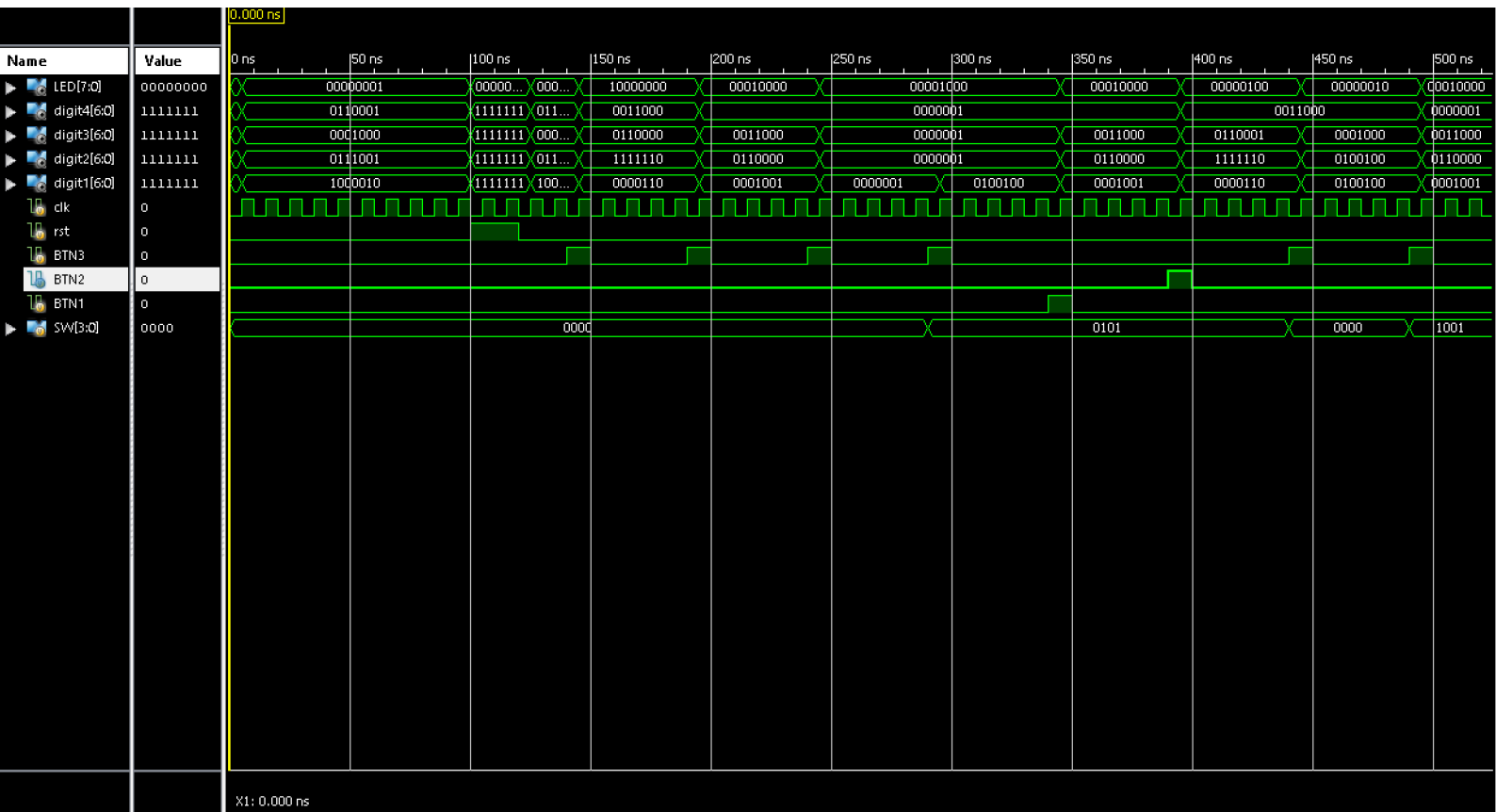
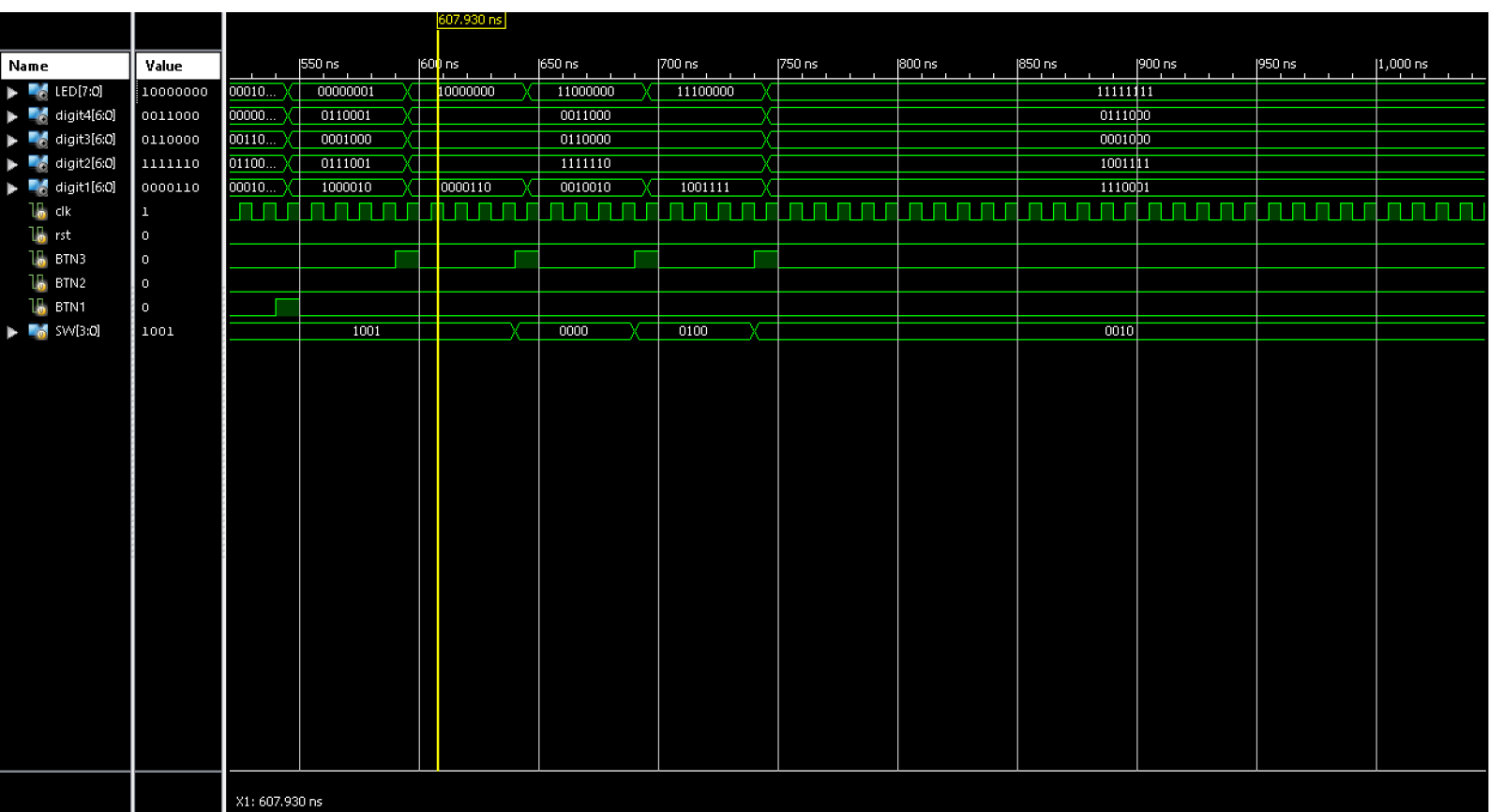


- Reset the circuit
- Inset the debit card by pressing *BTN3*
- Enter the password correctly and go to the ATM menu state
- Go to the money operation state by pressing *BTN3*
- Deposit 5 into your account (by setting the *SW* and pressing *BTN3*)
- Go back to the ATM menu state by pressing *BTN1*
- Go to password change state by pressing *BTN2*
- Enter the current password correctly (by setting the *SW* and pressing *BTN3*)
- Enter the new password (by setting the *SW* and pressing *BTN3*)

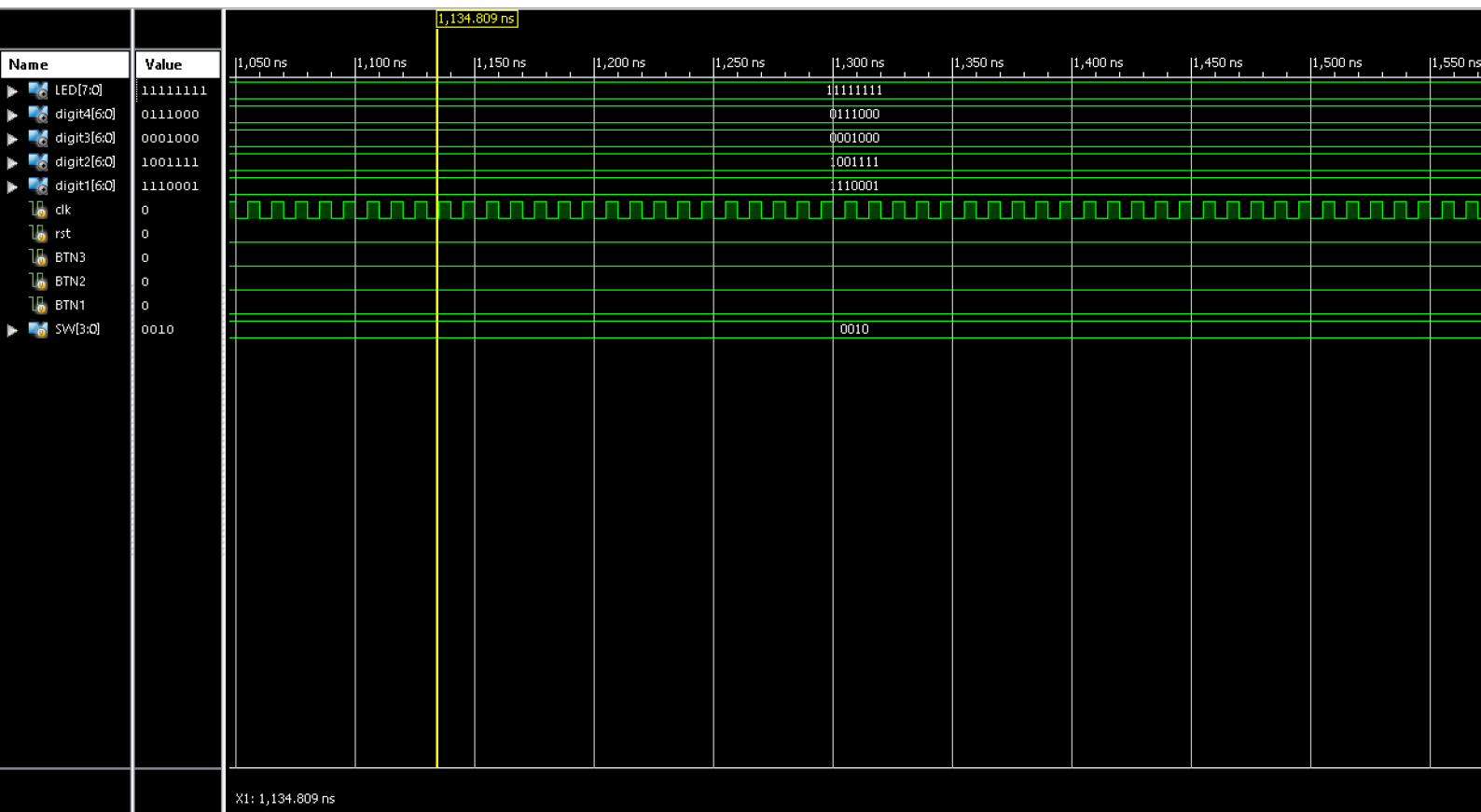


We can observe the 3 steps below so in simulation scenario we completed “j” to “l”.

- j. Log out from the ATM by pressing *BTN1*
- k. Inset the debit card by pressing *BTN3*
- l. Enter the password wrong for 3 times (by setting the *SW* and pressing *BTN3*)



We can observe waiting 5 second below.



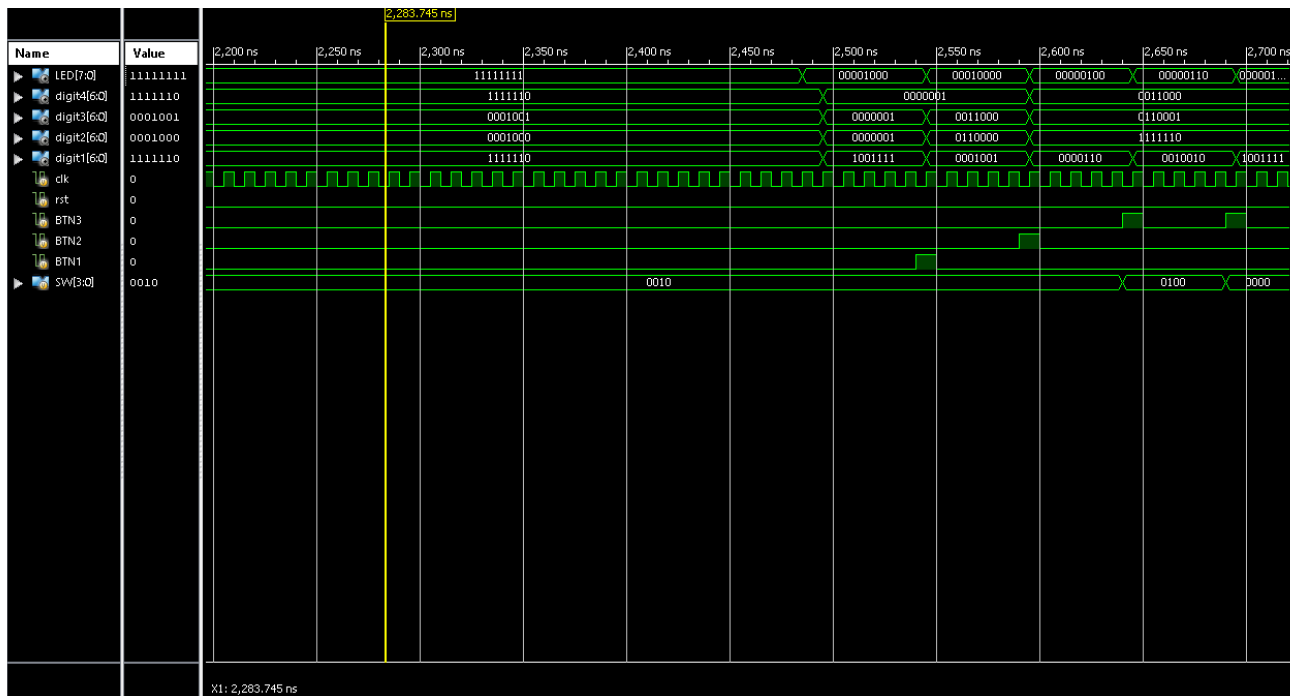
We can observe the 5 steps below so in simulation scenario we completed “m” to “q”.

- m. Inset the debit card by pressing *BTN3*
- n. Enter the password correctly and go to the ATM menu state (by setting the *SW* and pressing *BTN3*)
- o. Go to the money operation state by pressing *BTN3*
- p. Withdraw 4 from your account (by setting the *SW* and pressing *BTN2*)
- q. Withdraw 2 from your account (by setting the *SW* and pressing *BTN2*)

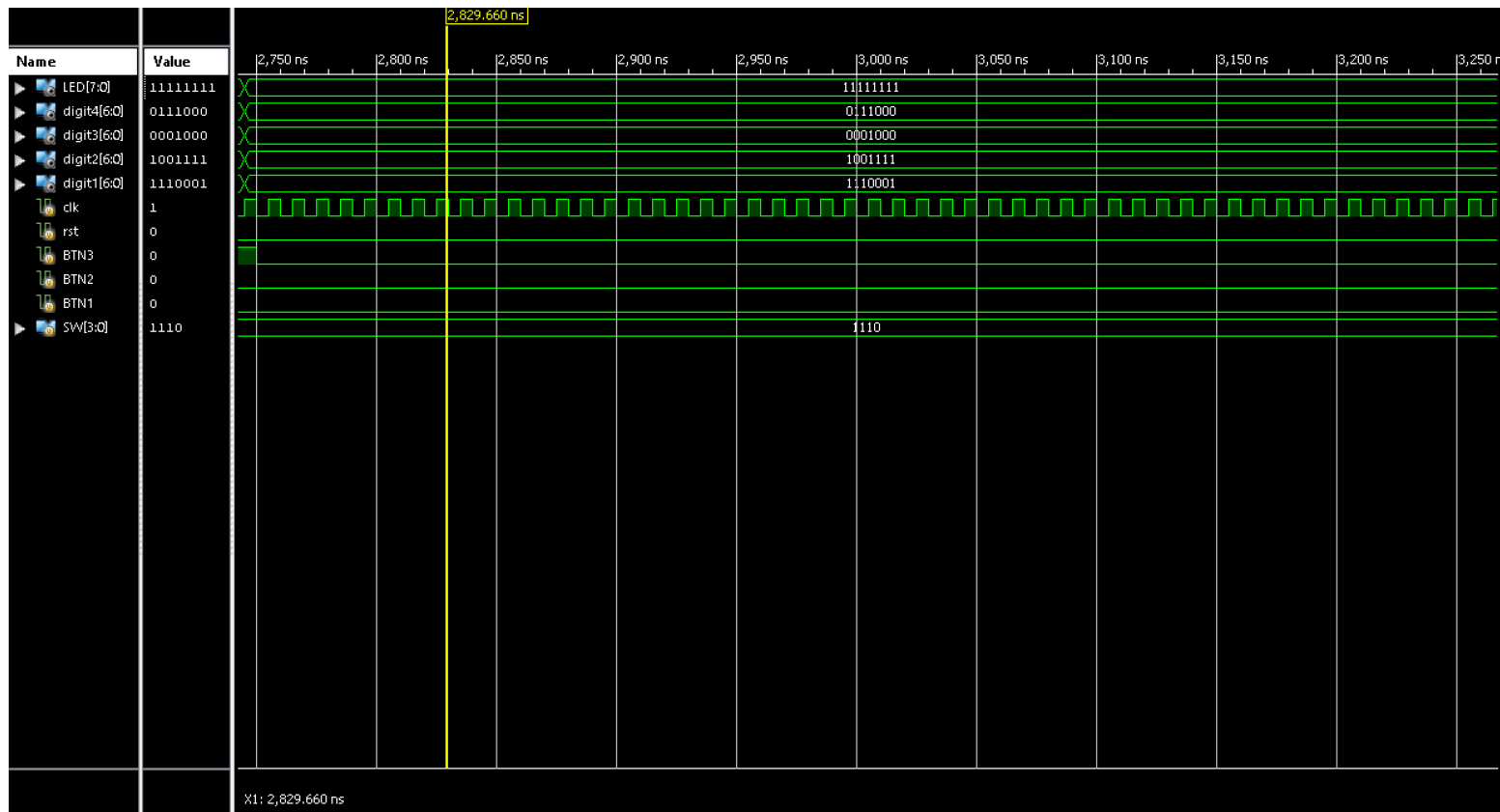


We can observe the 3 steps below so in simulation scenario we completed “r” to “t” but didn’t finished last password entrance.

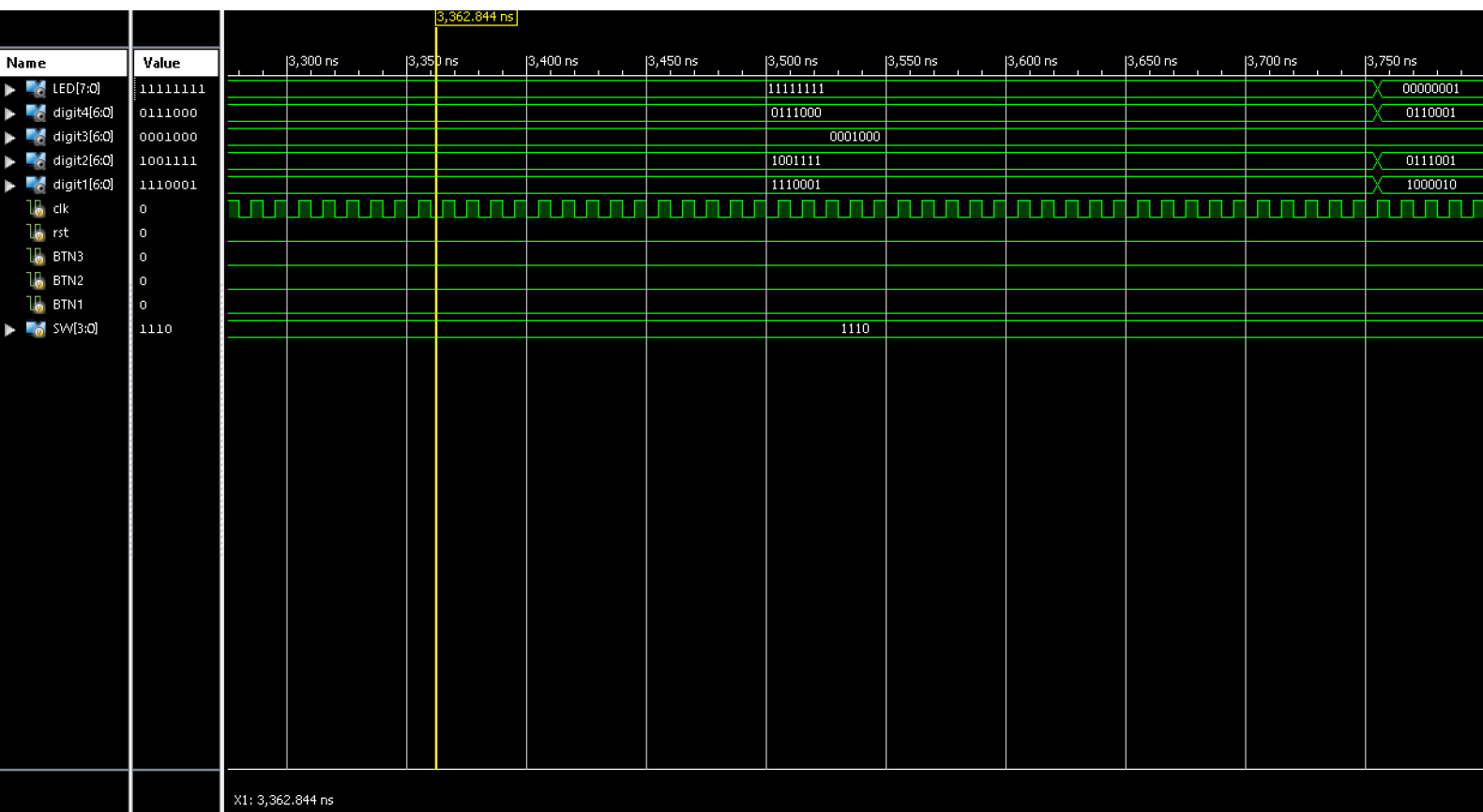
- r. Go back to the ATM menu state by pressing *BTN1*
- s. Go to the password change state by pressing *BTN2*
- t. Enter the current password wrong for 3 times (by setting the *SW* and pressing *BTN3* -- you should be logged out)



We can observe the last wrong password entrance and waiting phase.



We can see the going IDLE state after the FAIL.



Implementation details

Question: What is the delay for your circuit assumed by the synthesis?

Answer: 5.653 ns.

Question: What is the percentage of the utilized 4 input LUTs?

Answer: The percentage of the utilized 4 input LUTs is 11%.