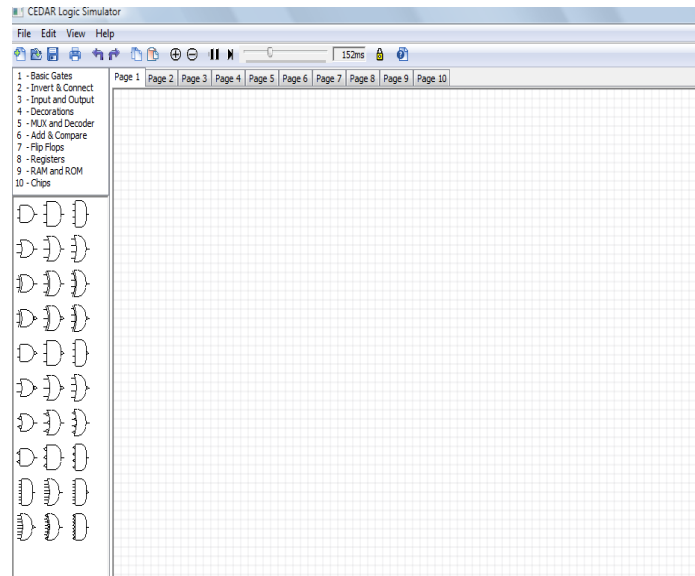


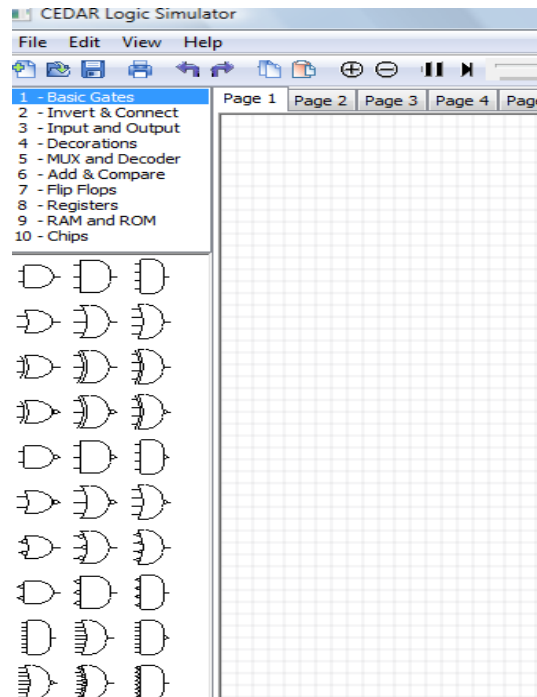
Lab Module

How to use Cedar

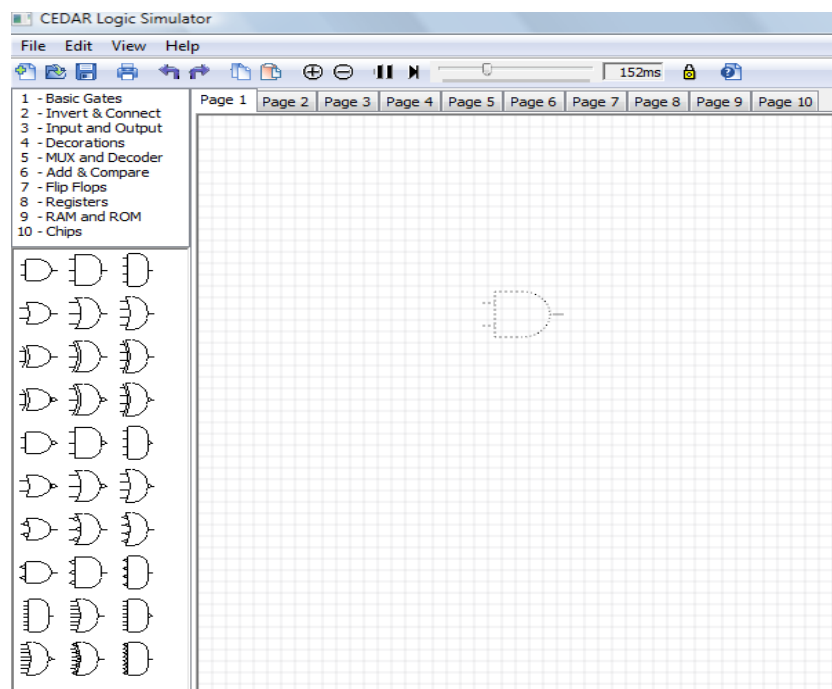
1. Open Cedar Logic
2. When the program opens, your screen should look similar to this:



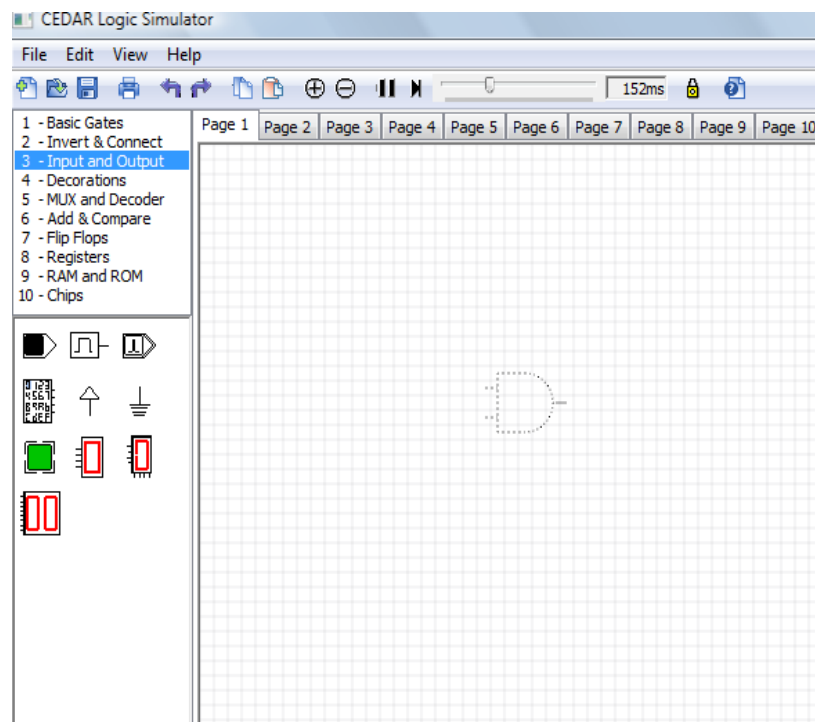
3. Click to the "1 – Basic Gates" to view the list of gates.



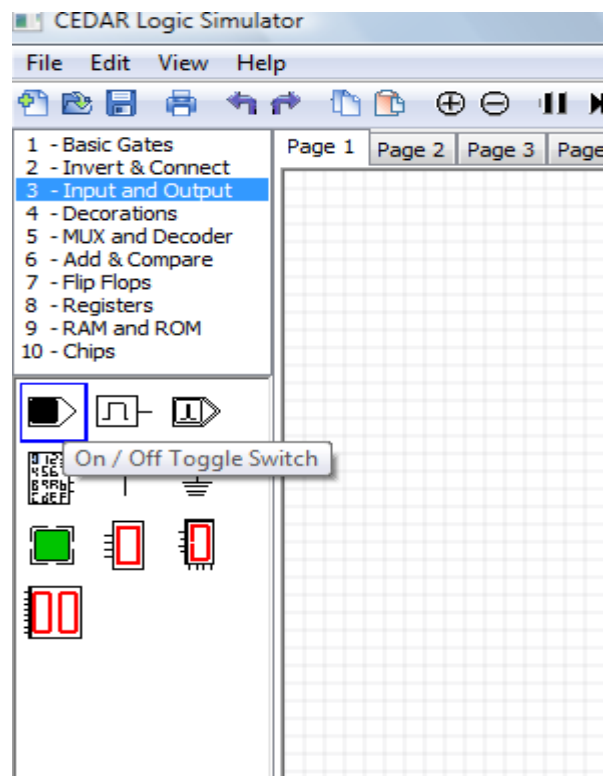
4. Hold the left mouse button down at the AND gates and drag the gate shape onto the gate canvas.



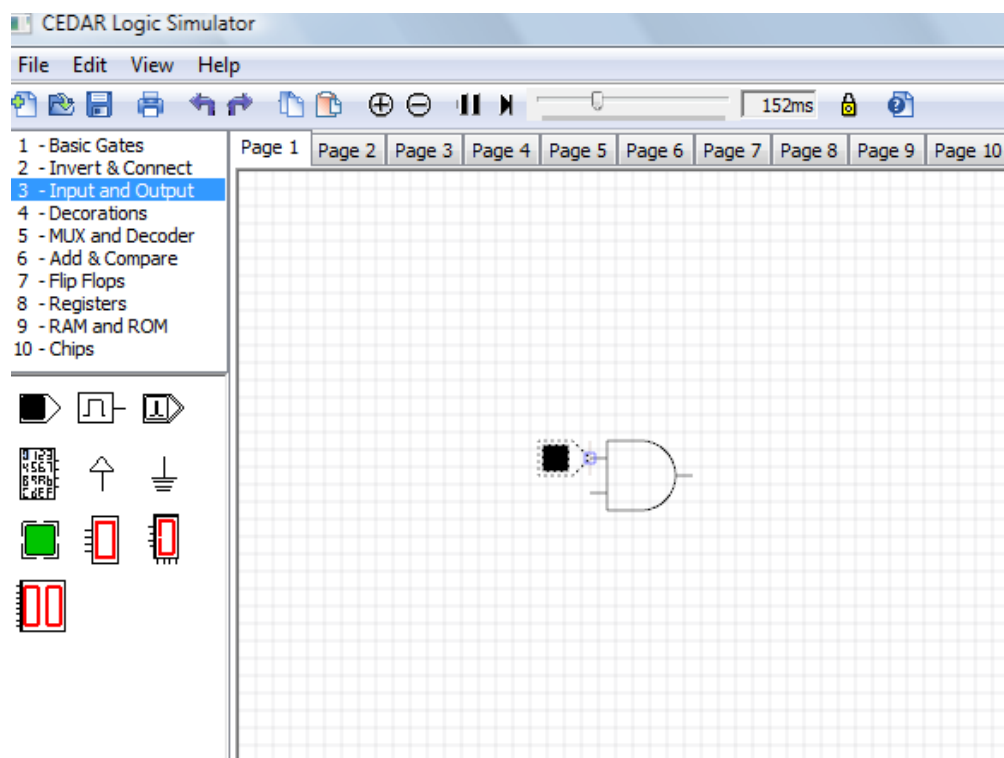
5. Click to the “3 – Input and Output” to view the list of I/O.



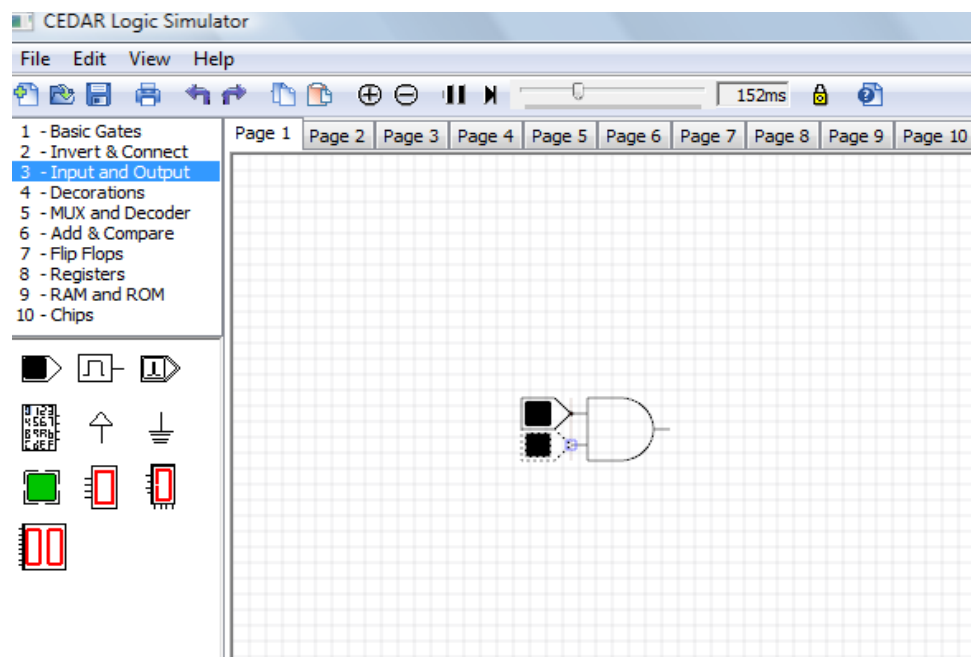
7. Select the “On/Off Toggle Switch” and drag it onto the gate canvas.



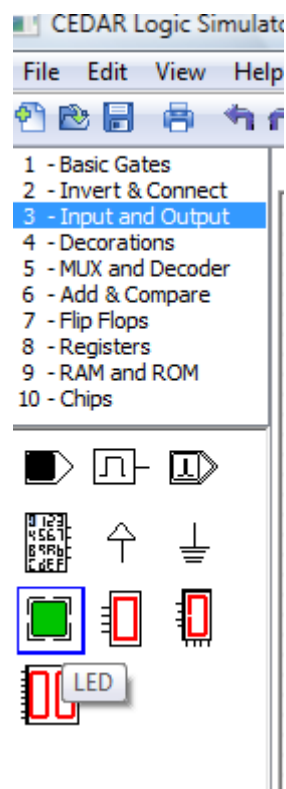
8. Connect the “On/Off Toggle Switch” with the AND gates.



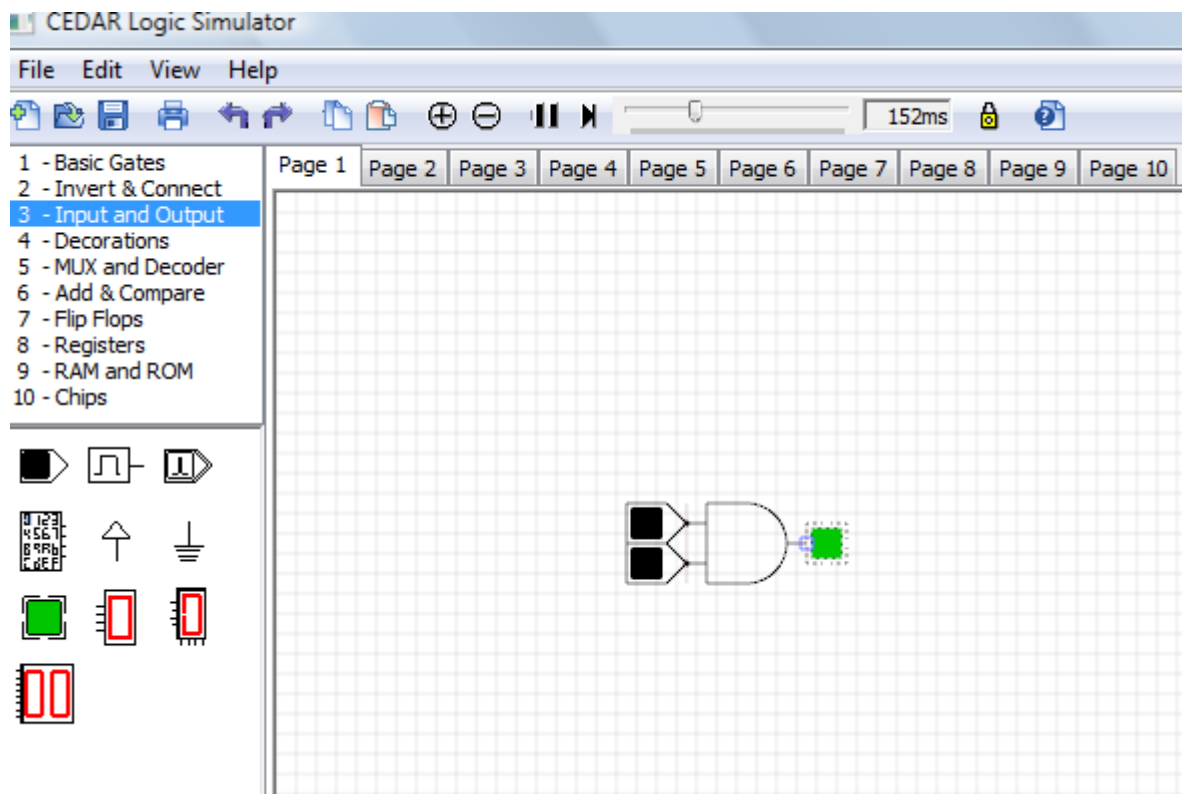
9. Do the same process with another “On/Off Toggle Switch”.



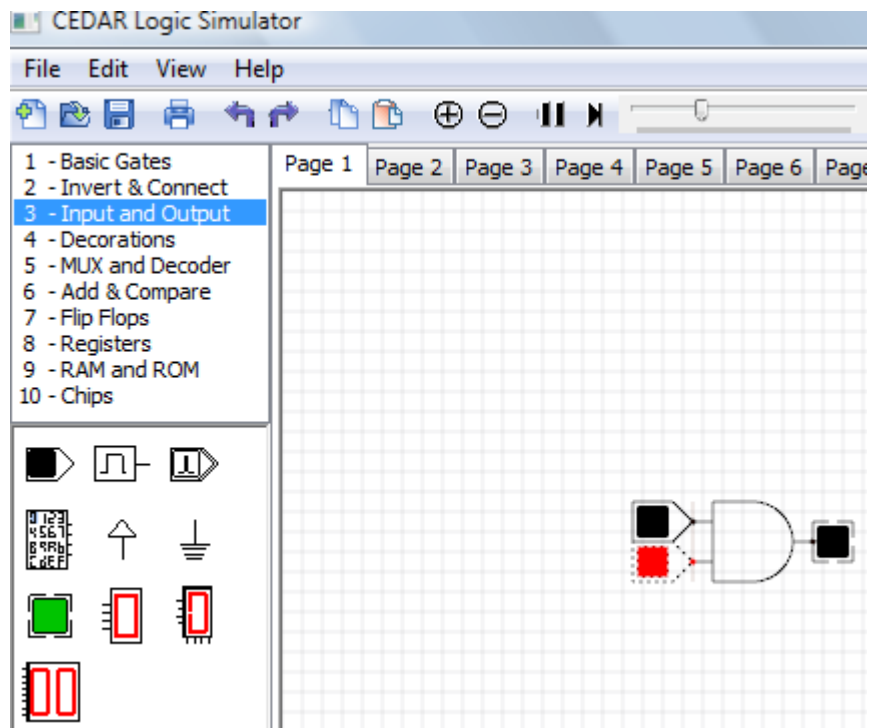
10. Drag the LED onto the canvas.



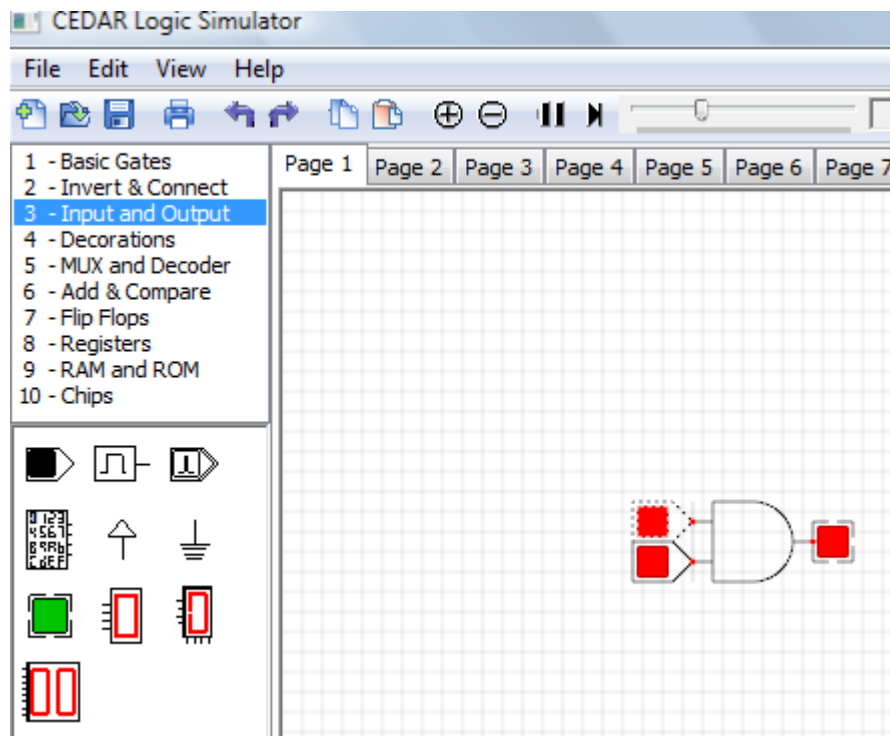
11. Connect the LED at the output of the AND gates.



12. You can set the value for the “On/Off Toggle Switch” by clicking the black box. Black means “0” and red means “1”.



13. Led will light if the value of operation is “1”



Now, let's try yourself.

1. Draw the AND gates with 3 input and produce the truth table.
2. Draw the OR gates with 3 input and produce the truth table.
3. Draw the NOT gates and produce the truth table
4. Draw the NAND gates with 2 input and produce the truth table
5. Draw the NOR gates with 2 input and produce the truth table
6. Draw the EX-OR gates with 2 input and produce the truth table