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Q:1 Verify Truth table for Three Basic Gates in Logisim.

**AND Gate:**

Diagram, schematic

Description automatically generated

**OR Gate:**

Diagram, schematic

Description automatically generated

**NOT Gate:**

A picture containing scatter chart

Description automatically generated

Q:2 Show how we can change/edit the properties of any device.

1. Go to "Devices" tab.
2. Click "All Managed Devices".
3. Select the Device you wish to modify.
4. Click "Edit -> Properties".
5. Change the "Property Refresh Policy" value to "Keep old values on rescan".
6. Now change the different fields as needed and click OK.

Q:3 Write down the functionality of Explorer Pane.

Logisim organizes tools into **libraries**. They are displayed as folders in the explorer pane; to access a library's components, you have only to double-click the corresponding folder. When we create a project, it automatically includes several libraries:

* Wiring: Components that interact directly with wires.
* Gates: Components that perform simple logic functions.
* Plexers: More complex combinational components, like multiplexers and decoders.
* Arithmetic: Components that perform arithmetic.
* Memory: Components that remember data, like flip-flops, registers, and RAM.
* I/O: Components that exist for the purpose of interacting with the user.
* Base: Tools that are integral to using Logisim, though you probably won't need to dig into this library very often.

Q:4 What do you think Logisim is good software for manipulating Digital circuits or not?

Yes, because it’s easy to understand.