Once Packet Tracer is loaded, drag a cloud icon from the lower left corner of the screen to the design area of the program.

Double click on the cloud to bring up its edit window on the right side of your screen. Ensure the “Physical” Tab is selected. Scroll over to the right side of the device and turn off the power.
Once the power is off, drag and drop the PT-CLOUD-NM-1S interface to every empty slot on the device. Then turn the power back on. Note that this step is not crucial, but it will save you from stumbling into a program bug that will allow you to connect to an interface that isn’t installed.

Once your interfaces are installed and the power is back on, click on the “Config” tab to bring up the screen you’ll need to create your DLCIs and PVCs.
Click on a button for a serial interface. In my example, I’ve chosen Serial 0. In the window to the right, you can specify LMI type, a DLCI, and a description for the link. I left the LMI type alone, gave it a DLCI of 700, and added a description. Then I clicked “ADD” and an entry appeared in the window. At this time I’m unsure what the “Port Status” check box does. It was checked by default, and I left it checked.

I repeated this process for the Serial 1 interface, giving it a DLCI of 800. (no picture included.)

Once you set a DLCI on two different interfaces, you must create a PVC between them. Click on the “Settings” button under “CONNECTIONS” to access the window where you map interfaces. This step creates the virtual link between the interfaces so data traffic can flow between them.

In my example, Serial 0 was already selected in the left drop-down menu. I selected “Serial 1” on the right side and clicked “Add.”
I didn’t need to change the descriptions in the other drop-down menus because I only had one DLCI on each interface. Had I configured more than one, I could have chosen the description of the appropriate DLCI.

That’s all you need to do to get the frame-relay “cloud” running. After that, you can drag and drop routers to the design area. You’ll have to power them down and add serial interfaces, and then turn them back on.

Choose the “Serial DCE” connection to connect your routers to the cloud. Be sure to link to the cloud first, and then connect to the router. This ensures the DCE end of the cable is connected to the cloud. If you get it backwards, the connection will fail. The easiest
way to tell is to let your mouse hover on the serial link for a second, and labels will appear that show you which interfaces the line is connected to on each device, and the DCE side has a little clock icon beside the interface descriptor.

From this point, you can get into the router CLI and set up point-to-point frame relay. As of this writing, I haven’t been able to make Packet Tracer simulate subinterfaces, so I don’t think it will allow you to do point to multipoint with subinterfaces.