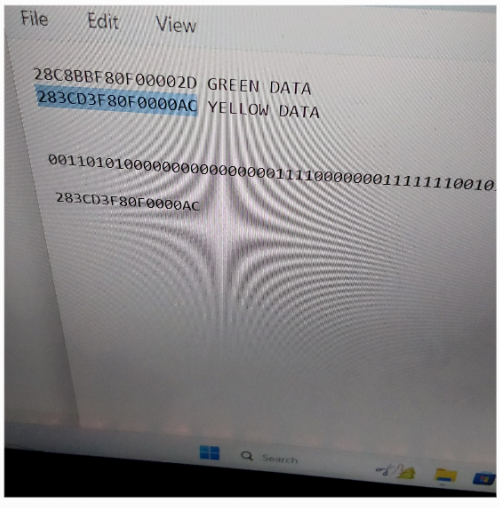
Me and morgan got bussed Dallas one wire to function.

Using a previously made single channel Dallas one wire we figured out that we can address each sensor one by one by using a special code that each sensor comes preprogrammed with. We used arduino IDE to extract the IDs



Dallas one wire execution goes like
Presence all sensors
Address bus with sensor ID
Match rom-tells sensor to start comms
Presence all sensors
Address bus with id
Request a temperature read
Presence all sensors
Address bus with id
Request a temperature encode
Presence all sensors
Address bus with id
Request a temperature send

This is how the above sequence looks like in code
It's a bit scuffed and hard to read might change it later to make it more streamlined