UTAustinX: UT.6.01x Embedded Systems - Shape the World

KarenWest (/dashboard) ▼

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Example 11.2. Develop a communication network between two LaunchPads. The switches are inputs, LED is output, and the UART is used to communicate. There will be five questions and three responses. The information is encoded as colors on the LED. The five questions are

Red: Are you there in your office?

Yellow: Are you happy?

Green: Are you hungry, want to have lunch?

Blue: Are you thirsty, want to meet for a beverage?

LightBlue: Shall I come to your office to talk?

The three answers are

White: Yes

Purple: Maybe

Dark: No

VIDEO 11.5A. CHAT TOOL PROTOCOL

C11 5a Chat room   YouTube

▶

DR. RAMESH YERRABALLI: So to demonstrate our communication

using serial UART we're going to develop up a chat tool.

DR. JONATHAN VALVANO: So we can talk together?

4:05 / 4:05　　　　**1.0x**

DR. RAMESH YERRABALLI: So we can talk to each other.

And in any communication, to start with we have to define our protocol.

So the protocol we are going to use for our communication

is described visually here.

So we're going to have two microcontrollers.

DR. JONATHAN VALVANO: Do I get one?

DR. RAMESH YERRABALLI: Yes.

This is a microcontroller which is the microcontroller for me.

And this is another microcontroller.

And we're going to connect them as we saw

using the serial communication, which means

that the transmit line(TxD) on mine will be

Help