UART Library

This library is used for communication between the ATmega2560 micro-controller and a PC using the UART protocol. On the ATmeag2560 micro-controller, UART0 is responsible for the serial communication.

The following functions can be used to transmit and receive data using UART:

- **void uart0_init()**

  - Description: Initializes UART0 and sets the baud rate to 9600.

  - Parameters: None

  - Returns: void

- **void uart_tx(char data)**

  - Description: Transmits a byte of data of char type.

  - Parameters:

    - **data**: the byte of data which needs to be transmitted

  - Returns: void

- **void uart_tx_string(char *data)**

  - Description: Transmits an entire string of characters. **NOTE:** To send a string to Python script, send an extra "**\n**" after the string. For example, if you want to send the string "**e-Yantra**", you will use either **uart_tx_string("e-Yantra\n");** or **uart_tx_string("e-Yantra");** and **uart_tx_string("\n");**.

  - Parameters:

    - **data**: the address of string which needs to be transmitted

  - Returns: void