SOFTWARE ARCHITECTURE OF PROJECT2

uart isr to recieve data using uart_recieve_n() and uart0_irdhandler() in uart.c function

Circular buffer to store recieved data using cb_buffer_add_item() in circularbuffer.c

Putty for serial data TX from user

Data processing function to count different entries using dataprocesser() in project2.c

Transmit ISR to transmit data to putty using uart0_irqhandler() and uart_send_n() in uart.c function

ITOA function to convert integers to characters using my_itoa() from conversion.c

Dump_statistic function to arrange and format data dump_statistics() from project2.c