```
// Additional Memory Addresses
#define SG_SMWOdemo_SMWO_dpram1 (SG_SMWOdemo_SMWO_dpram+0x04)
#define SG_SMWOdemo_SMWO_dpram2 (SG_SMWOdemo_SMWO_dpram+0x08)
#define SG_SMWOdemo_SMWO_dpram3 (SG_SMWOdemo_SMWO_dpram+0x0C)
#define SG_SMWOdemo_SMWO_dpram4 (SG_SMWOdemo_SMWO_dpram+0x10)

int main()
{
    Xuint8 stop = ' ';
    while(stop != 'x')
    {
        *((volatile unsigned int*) SG_SMWOdemo_Gateway_In) = 0;
        xil_printf("\n\rSM0: %d", *((volatile unsigned int*) SG_SMWOdemo_Gateway_Out));
        *((volatile unsigned int*) SG_SMWOdemo_Gateway_In) = 1;
        xil_printf("\n\rSM1: %d", *((volatile unsigned int*) SG_SMWOdemo_Gateway_Out));
        *((volatile unsigned int*) SG_SMWOdemo_Gateway_In) = 2;
        xil_printf("\n\rSM2: %d", *((volatile unsigned int*) SG_SMWOdemo_Gateway_Out));
        *((volatile unsigned int*) SG_SMWOdemo_Gateway_In) = 3;
        xil_printf("\n\rSM3: %d", *((volatile unsigned int*) SG_SMWOdemo_Gateway_Out));
        *((volatile unsigned int*) SG_SMWOdemo_Gateway_In) = 4;
        xil_printf("\n\rSM4: %d", *((volatile unsigned int*) SG_SMWOdemo_Gateway_Out));

        xil_printf("\n\rPlease enter a one digit whole number input to SM0: ");
        *((volatile unsigned int*) SG_SMWOdemo_SMWO_dpram) = XUartLite_RecvByte(STDIN_BASEADDRESS) - 48;
        xil_printf("\n\rPlease enter a one digit whole number input to SM1: ");
        *((volatile unsigned int*) SG_SMWOdemo_SMWO_dpram1) = XUartLite_RecvByte(STDIN_BASEADDRESS) - 48;
        xil_printf("\n\rPlease enter a one digit whole number input to SM2: ");
        *((volatile unsigned int*) SG_SMWOdemo_SMWO_dpram2) = XUartLite_RecvByte(STDIN_BASEADDRESS) - 48;
        xil_printf("\n\rPlease enter a one digit whole number input to SM3: ");
        *((volatile unsigned int*) SG_SMWOdemo_SMWO_dpram3) = XUartLite_RecvByte(STDIN_BASEADDRESS) - 48;
        xil_printf("\n\rPlease enter a one digit whole number input to SM4: ");
        *((volatile unsigned int*) SG_SMWOdemo_SMWO_dpram4) = XUartLite_RecvByte(STDIN_BASEADDRESS) - 48;

        usleep(100);
        xil_printf("\n\rPlease press a key to continue. Press x to exit... ");
        stop = XUartLite_RecvByte(STDIN_BASEADDRESS);
    }
    return 0;
}
```