```
int main()
{
   while(1)
   {
      xil_printf("\n\rPlease input a one digit number as the first input to the adder: ");
      *((volatile unsigned int*) SG_adder_Gateway_In) = XUartLite_RecvByte(STDIN_BASEADDRESS) - 48;
      xil_printf("\n\raddend1: %d ", *((volatile unsigned int*) SG_adder_Gateway_In));

      xil_printf("\n\rPlease input a one digit number as the second input to the adder: ");
      *((volatile unsigned int*) SG_adder_Gateway_In1) = XUartLite_RecvByte(STDIN_BASEADDRESS) - 48;
      xil_printf("\n\raddend2: %d ", *((volatile unsigned int*) SG_adder_Gateway_In1));

      xil_printf("\n\rSum: %d ", *((volatile unsigned int*) SG_adder_Sum));
   }
   return 0;
}
```