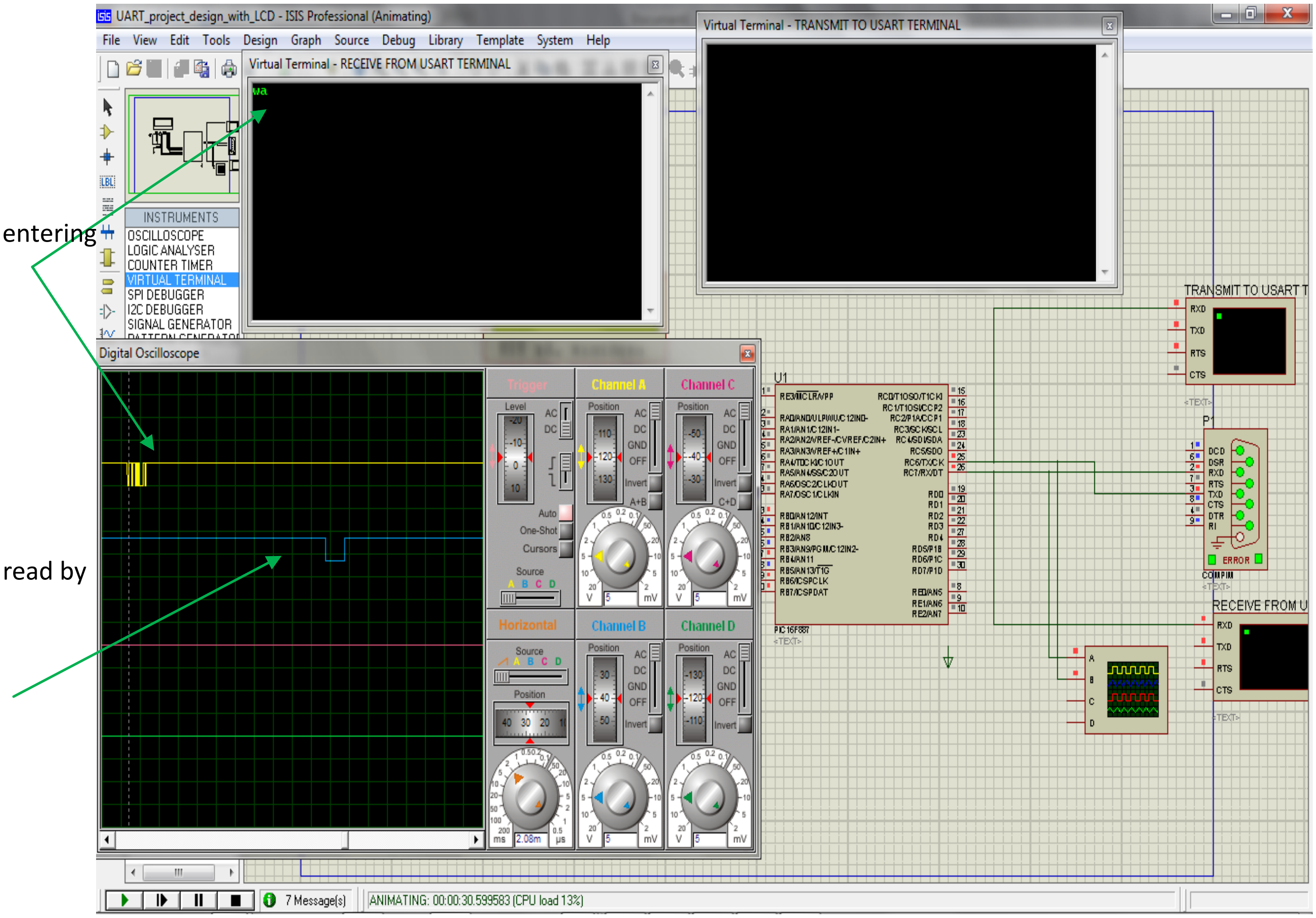

```
wa
```

ANIMATING: 00:00:30.599583 (CPU load 13%)

Data entering PIC

Data read by PIC

```
program UART_project

dim uart_rd as byte
dim LCD_RS as sbit at RB4_bit
dim LCD_EN as sbit at RB5_bit
dim LCD_D7 as sbit at RB3_bit
dim LCD_D6 as sbit at RB2_bit
dim LCD_D5 as sbit at RB1_bit
dim LCD_D4 as sbit at RB0_bit

dim LCD_RS_Direction as sbit at TRISB4_bit
dim LCD_EN_Direction as sbit at TRISB5_bit
dim LCD_D7_Direction as sbit at TRISB3_bit
dim LCD_D6_Direction as sbit at TRISB2_bit
dim LCD_D5_Direction as sbit at TRISB1_bit
dim LCD_D4_Direction as sbit at TRISB0_bit

dim output as char[1]

main:
TRISB = 0
PORTB = %11111111
ANSEL = 0
ANSELH = 0
Lcd_init()
```

```
Lcd_Cmd(_LCD_CLEAR)


  UART1_Init(9600)                      ' Initialize UART module at 9600 bps

  Delay_ms(100)                        ' Wait for UART module to stabilize


  while (TRUE)                          ' Endless loop

    if (UART1_Data_Ready() <> 0) then     ' If data is received,

      uart_rd = UART1_Read()              '   read the received data,

      UART1_Write(uart_rd)

      ByteToStr(uart_rd,output)

      Lcd_Out_Cp(output)               '   and send data via UART

    end if

  wend

end.
```