

A screenshot of a terminal window with a dark background. The title bar shows 'Terminal' and a close button. Below the title bar, there's a tab labeled 'COM4'. The terminal displays the following text: 'Your Name: Alan Bernal', 'Today's date is 10, 8, 2025', and 'My Course Section is Section 0001'. A cursor is visible on the line following the last output.

```
Terminal X
COM4 X
Your Name: Alan Bernal
Today's date is 10, 8, 2025
My Course Section is Section 0001
```

```
/*
 * HW Assignment: CPGM0
 * EEL-4746 Fall 2025
 * Alan Bernal
 * Date: 10/8/2025
 * This is my first EEL-4746 C Program
 */
```

```
// Standard Includes
```

```
#include "driverlib.h"
```

```
#include <stdint.h>
```

```
#include <stdio.h>
```

```
//Include file for BCUART function
```

```
#include "HAL_UART_4746.h"
```

```
// Function Prototypes
```

```
void GPIO_init();
```

```
// Main Function
```

```
void main(void){
```

```
    //Define Local Variable
```

```
    char buffer[100];
```

```
    //WDT
```

```
    WDT_A_hold(WDT_A_BASE);
```

```
    //Initialize LED0 and set it low
```

```
    GPIO_setAsOutputPin(GPIO_PORT_P1, GPIO_PIN0);
```

```
    GPIO_setOutputLowOnPin(GPIO_PORT_P1, GPIO_PIN0);
```

```
    //Initialize and Configure UART
```

```
    UART_initGPIO();
```

```
    UART_init();
```

```
    //Activate New Port Configurations
```

```
    PMM_unlockLPM5();
```

```
    //Writing your name
```

```
sprintf(buffer, "Your Name: Alan Bernal \r\n");
```

```
UART_transmitString(buffer);
```

```
//Writing todays date
```

```
sprintf(buffer, "Today's date is 10, 8, 2025\r\n");
```

```
UART_transmitString(buffer);
```

```
//Writing Course Section
```

```
sprintf(buffer, "My Course Section is Section 0001 \r\n");
```

```
UART_transmitString(buffer);
```

```
//Turn LED ON.. done
```

```
GPIO_setOutputHighOnPin(GPIO_PORT_P1, GPIO_PIN0);
```

```
//Spin Loop
```

```
while(1){
```

```
    // Nothing here.
```

```
}
```

```
}
```