# MINI-PROJECT O

KEIL & PUTTY - HELLO WORLD

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CPS2: Advanced Embedded Systems

#### **KEIL UART #1**

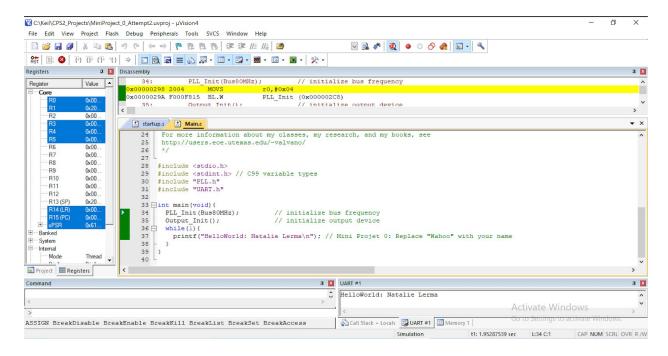


Figure 1: Keil UART #1 Window - "Hello World: Natalie Lerma"



Figure 2: Keil UART #1 Window Close-up - "Hello World: Natalie Lerma"

#### **PUTTY DELIVERABLES**

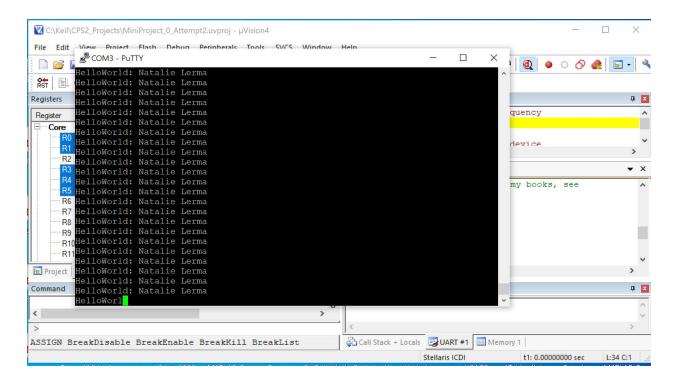


Figure 3: Putty Window with Inclusion of Keil- "Hello World: Natalie Lerma"

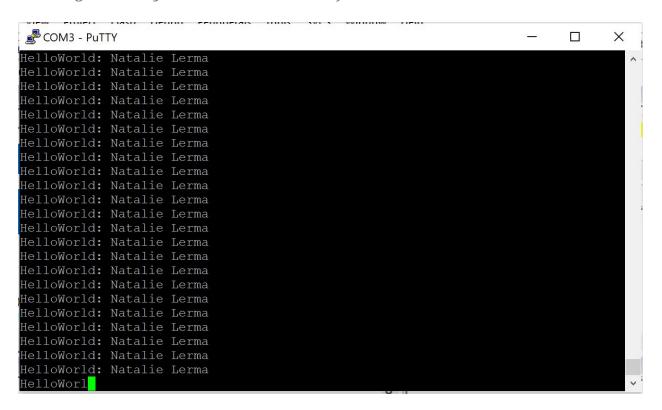


Figure 4: Putty Window Close-up - "Hello World: Natalie Lerma"

### APPENDIX A- PARALLELS, KEIL, AND OTHER DOWNLOADS



Figure A.1: Parallels Download Window with Windows 10

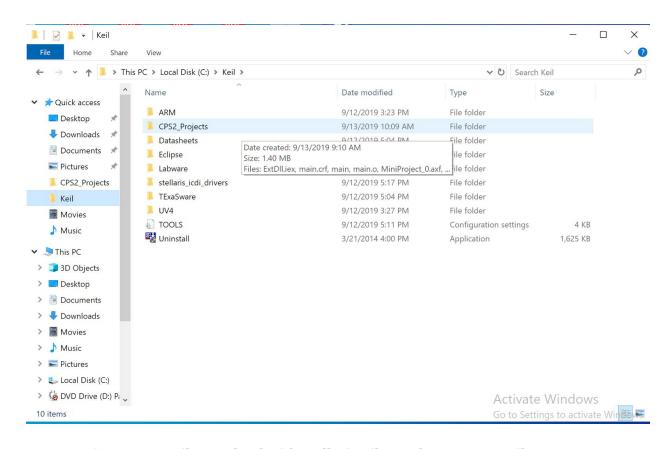


Figure A.2: Keil Download with Stellaris Files and TExaSware Files

#### APPENDIX B- MAIN.C FILE MODIFICATIONS

```
// Modified by Mustafa Hotaki, July 2018
// Modified by Sile Shu
// main.c
// Runs on LM4F120/TM4C123
// UART runs at 115,200 baud rate
// Daniel Valvano
// May 6, 2015
/* This example accompanies the books
 "Embedded Systems: Introduction to ARM Cortex M Microcontrollers",
 ISBN: 978-1469998749, Jonathan Valvano, copyright (c) 2015
"Embedded Systems: Real Time Interfacing to ARM Cortex M Microcontrollers",
 ISBN: 978-1463590154, Jonathan Valvano, copyright (c) 2015
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```

```
INCIDENTAL.
OR CONSEQUENTIAL DAMAGES, FOR ANY REASON WHATSOEVER.
For more information about my classes, my research, and my books, see
http://users.ece.utexas.edu/~valvano/
*/
#include <stdio.h>
#include <stdint.h> // C99 variable types
#include "PLL.h"
#include "UART.h"
int main(void){
      PLL_Init(Bus80MHz);
                               // initialize bus frequency
      Output_Init();
                          // initialize output device
      while(1){
             printf("HelloWorld: Natalie Lerma\n"); // Mini Projet 0: Replace
"Wahoo" with your name
      }
}
```

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