### **Nguyễn Gia Cát Tường ITITIU21117**

### **LAB 1**

### **A screenshot of a computer program Description automatically generatedIII.1 Lab Experiment 1 : Write the code to turn on and turn off a led which is connected to P2.2 GPIO port pin with the time delay 1 second.**

**A computer code with text

Description automatically generated with medium confidenceIII.2. Lab Experiment 2 : Write a program to interface LPC1768 GPIO port pin using Keil C to scan P1.26 pin, if this pin is 0, Toggle the led connected to P2.2.  
  
III.3. Lab Experiment 3 : Write a program to interface LPC1768 GPIO port pin using Keil C to scan P1.26 pin and P1.24, if pin1.26 pin is 0, Toggle the led1 (connected to P2.2),. if pin2.24 pin is 0, Toggle the led2 (connected to P2.3).**

**A screenshot of a computer code

Description automatically generated**

**A screenshot of a computer program

Description automatically generated**

**III.4. Lab Experiment 4 : Write a program to interface LPC1768 GPIO port pin using Keil C to scan P1.26 pin and P1.24, if pin1.26 pin is 0, control 8 leds in the KIT with Led lighting scenario 1 (Led turn on turn by turn). if pin2.24 pin is 0, control 8 leds in the KIT with Led lighting scenario 2 (Led turn on turn by turn).**

**A screenshot of a computer program

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Description automatically generatedIII.5. Lab Experiment 5 : Using Array and for loop to optimize the led control algorithm in experiment 4. (11. Write a program to interface LPC1768 GPIO port pin using Keil C to scan P1.23 pin, P2.4, P25 and P1.26, , if pin1.23 pin is 0, control 8 leds in the KIT with Led lighting scenario 1. if pin2.24 pin is 0, control 8 leds in the KIT with Led lighting scenario 2, if pin1.25 pin is 0, control 8 leds in the KIT with Led lighting scenario 3. if pin2.26 pin is 0, control 8 leds in the KIT with Led lighting scenario 4.)**

A screen shot of a computer

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A screenshot of a computer

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A screenshot of a computer program

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