
ECE 375 LAB 1

Introduction to AVR Development Tools

Lab Time: Tuesday 4-6

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STUDY QUESTIONS

1. What is the initial value of DDRB?
 - a. 0x00
2. What is the initial value of PORTB?
 - a. 0
3. Based on the initial values of DDRB and PORTB, what is Port B's default I/O configuration?
 - a. 0
4. What 16-bit address (in hexadecimal) is the stack pointer initialized to?
 - a. R16
5. What are the contents of register r0 after it is initialized?
 - a. 0xFF
6. How many times did the code inside of LOOP end up running?
 - a. 5
7. Which instruction would you modify if you wanted to change the number of times that the loop runs?
 - a. Alter \$04
8. What are the contents of register r1 after it is initialized?
 - a. 0xAA
9. What are the contents of register r2 after it is initialized?
 - a. 0x10
10. What are the contents of register r3 after it is initialized?
 - a. 0x0F
11. What is the value of the stack pointer when the program execution is inside the FUNCTION subroutine?
 - a. 0x10
12. What is the final result of FUNCTION? (What are the hexadecimal contents of memory locations \$0105:\$0104)?
 - a. Ba and 0e ba