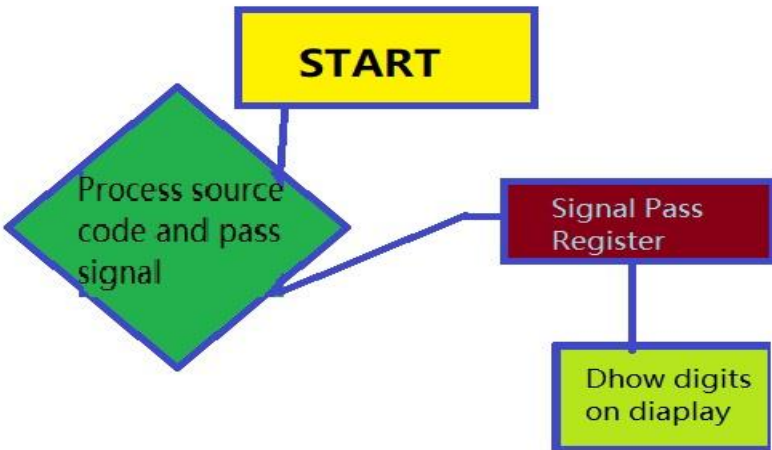


Hubei University of Technology

Experiment report

Grade	
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Course name	Embedded SYSTEMS AND DESIGNS			
Experimental name	EXPERIMENT 2 – 7 Segment LED display and control			
Departments	COMPUTER SCIENCE	Lecturer	Dr. Liu Chun	
Name	Rimon Mahmud	Student id	1811561124	
Experimental purpose	The aim of this experiment is to design a 7 segment LED display and control system using the 8051 microcontroller.			
Experimental preparation	1.Experimental environment: PROTEUS 8 PROFESSIONAL, WINDOWS 10 2.Knowledge preparation: AT89C51 processor,8051 Architecture, C language, 8051 Instruction set.			
Experimental content	7 segment LED display and control with Processor: AT89C51			
Experimental analysis	“7 segment LED display and control” Project is a functional example of AT89C51 Processors			
Experimental flowchart	 <pre>graph TD; START[START] --> Process{Process source code and pass signal}; Process --> Register[Signal Pass Register]; Register --> Display[Dhow digits on diaplay];</pre>			

<p>Code</p>	<pre> /* Main.c file generated by New Project wizard * * Created: Tue Nov 10 2020 * Processor: AT89C51 * Compiler: Keil for 8051 */ #include <reg51.h> #include <stdio.h> //unsigned char code table[10]={0x3f,0x06,0x4f,0x66,0x6d,0x7d,0x07,0x7f,0x6f}; unsigned char code table[10]={0x3f,0x5B,0x06,0x4f,0x66,0x6d,0x7d,0x07,0x7f,0x6f}; void delay(){ unsigned int x,y; for(x=0;x<=200;x++) { y++; } } void main(void) { // Write your code here while (1){ P0=table[1]; delay(); P0=table[2]; delay(); P0=table[3]; delay(); P0=table[4]; delay(); } } </pre>
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