

BÀI TẬP BÀI THỰC HÀNH 03

1. Họ tên: Nguyễn Thị Thủy MSV: 2020605575

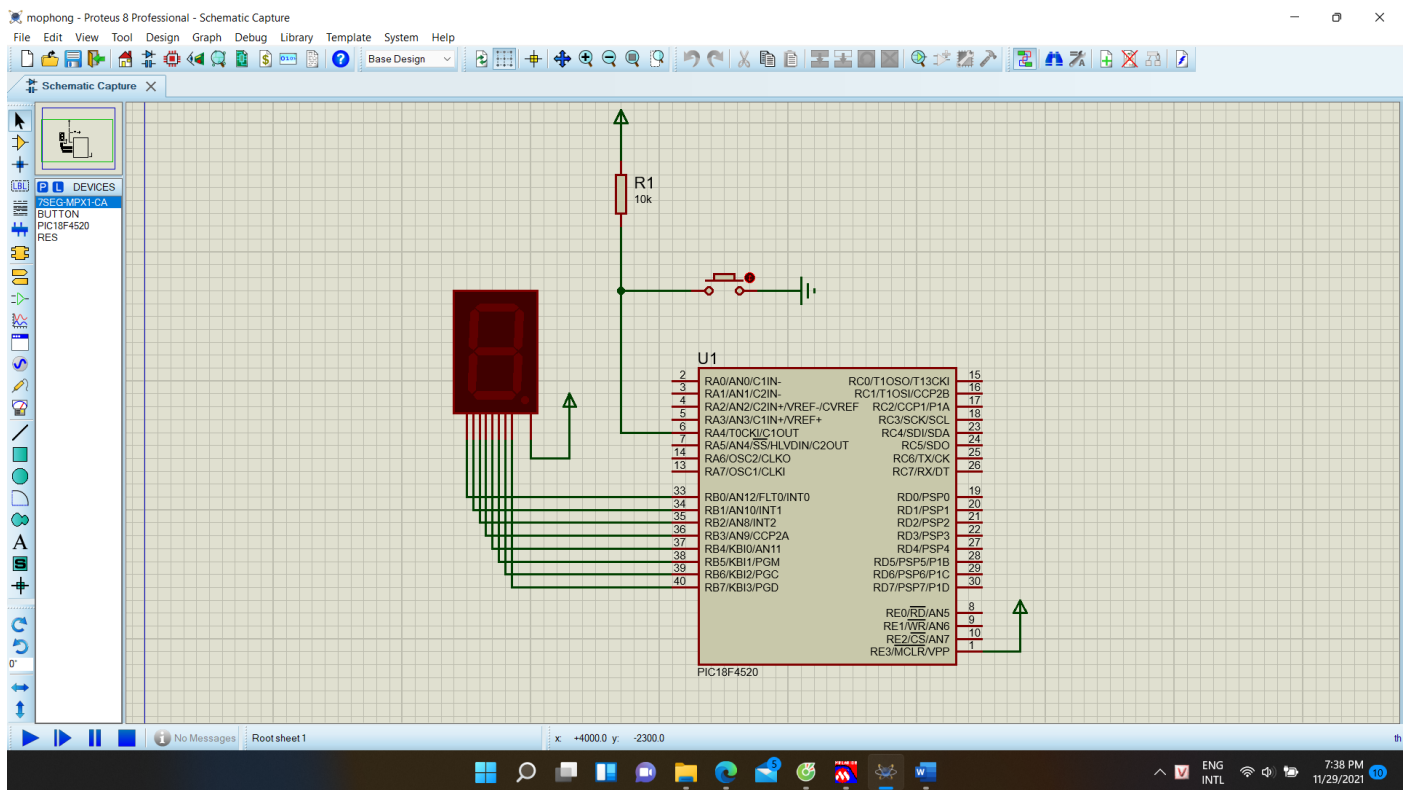
2. Lớp: FE6044.5

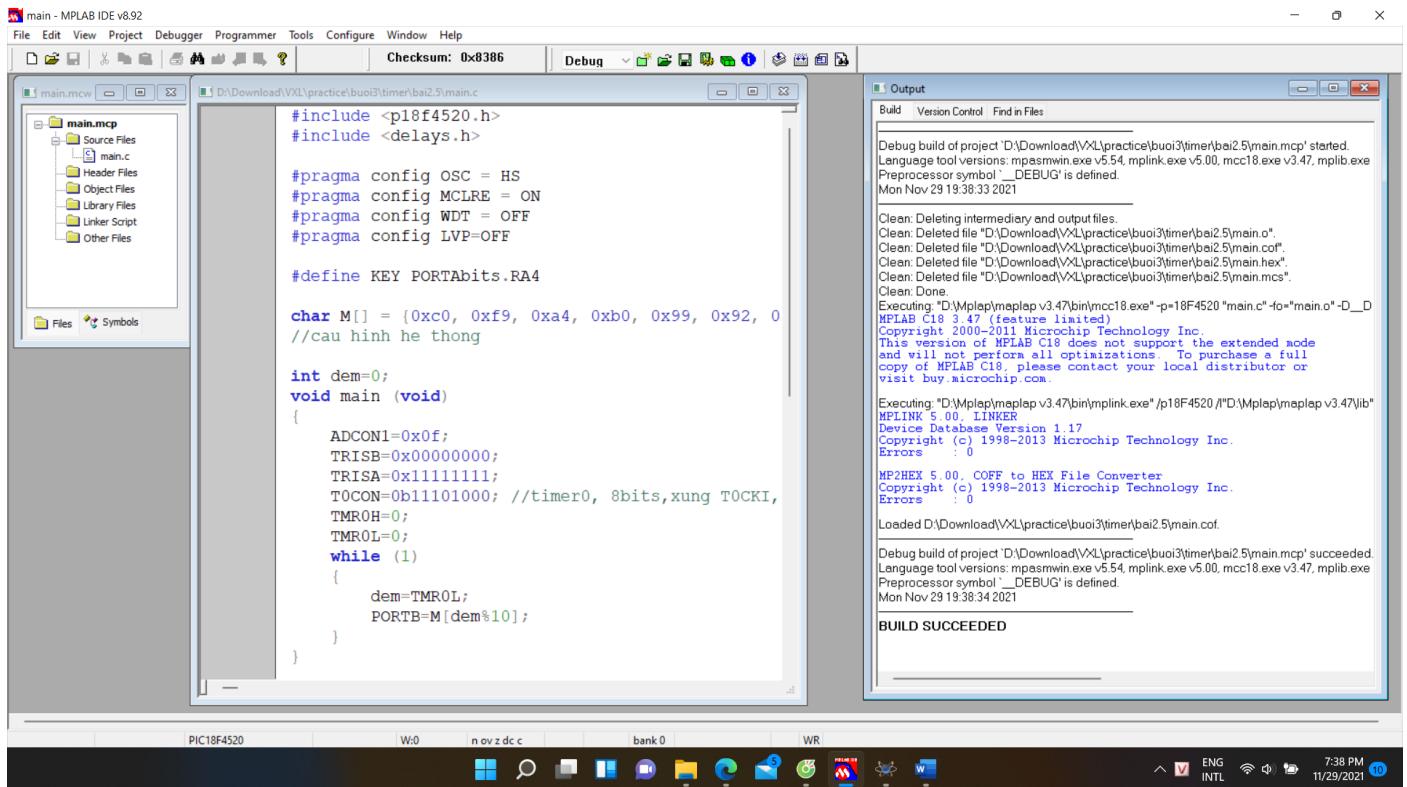
3. Nhóm: Ngày, thứ, ca thực hành: thứ 3, 23/11/2021, tiết 7 8 9 10 11 12

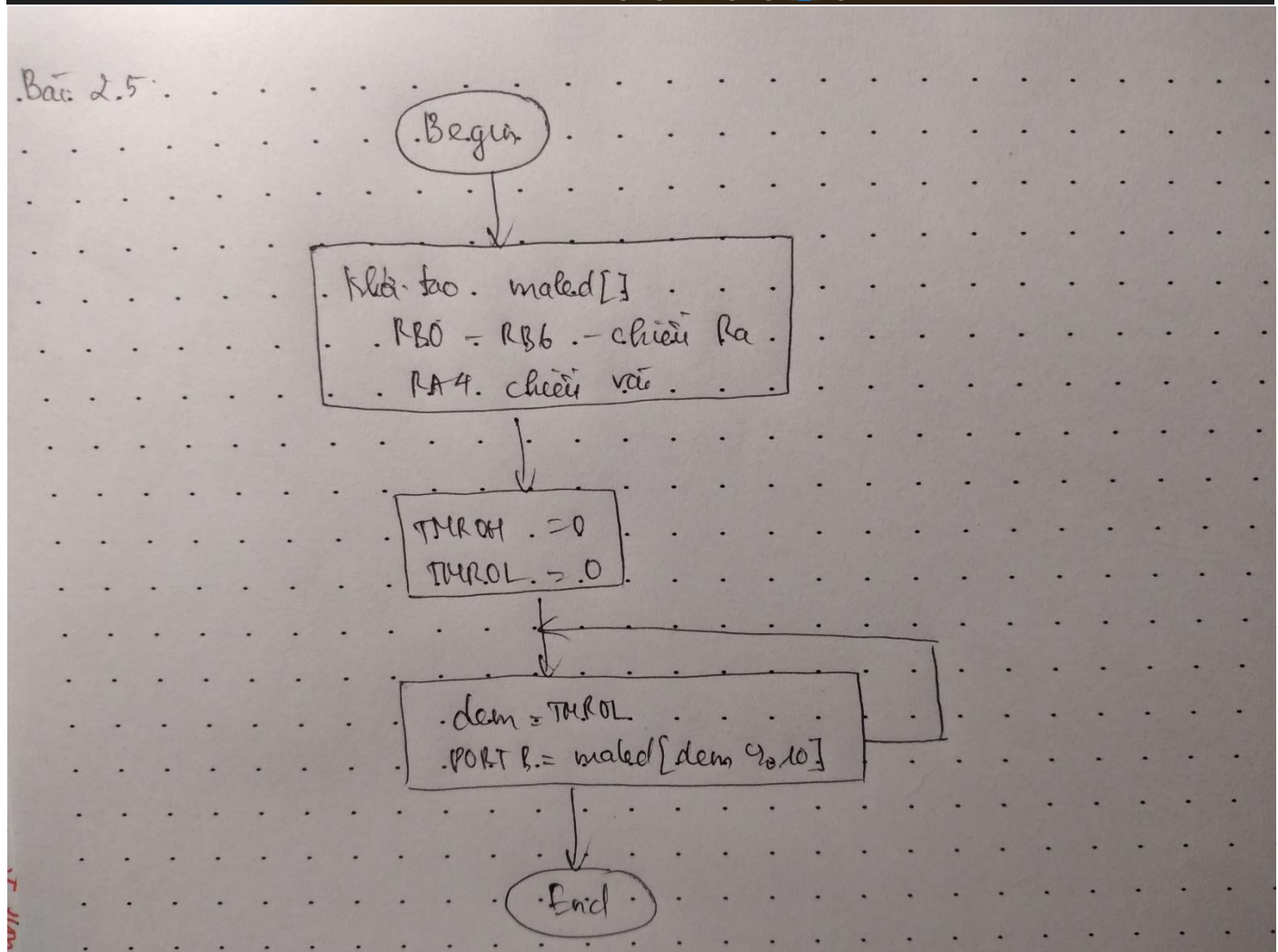
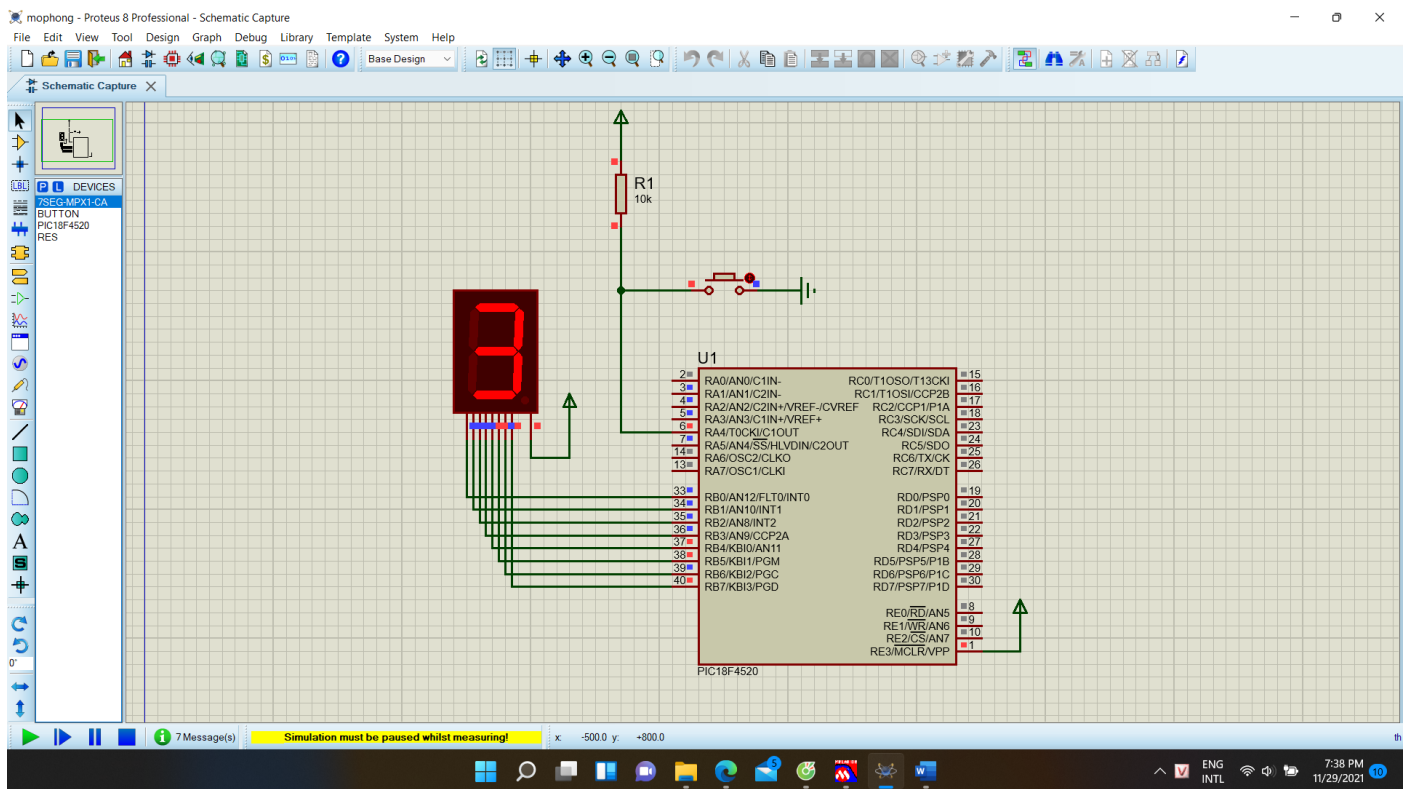
4. Nội dung bài tập

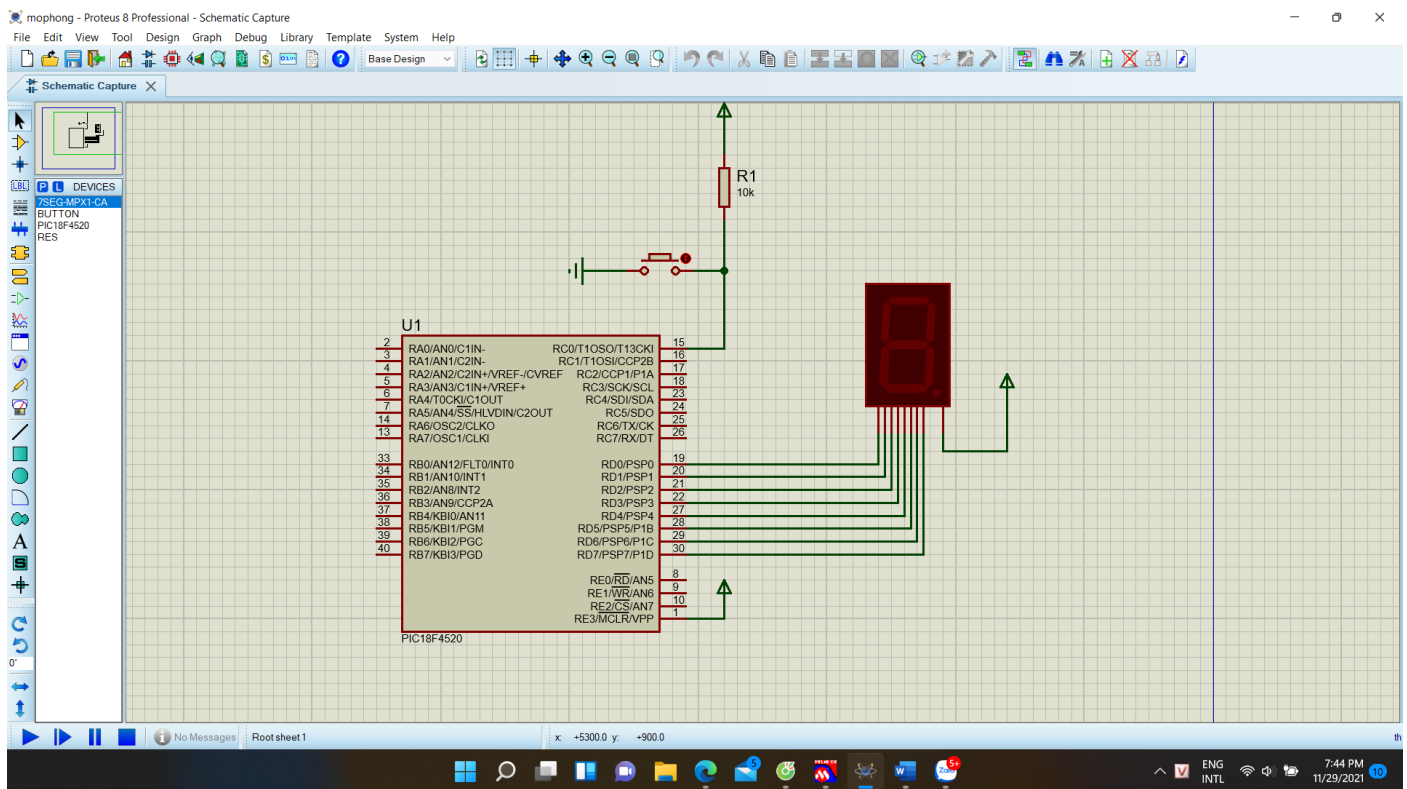
4.1 Bài tập 2.5

- Chụp ảnh mạch điện
- Chụp ảnh viết code
- Chụp ảnh mô phỏng kết quả
- Chụp ảnh lưu đồ thuật toán (vẽ trên giấy sau đó chụp lại)









main - MPLAB IDE v8.92

File Edit View Project Debugger Programmer Tools Configure Window Help

Checksum: 0x834b Debug

main.mcp

D:\Download\VL\practice\buoi3\timer\bai2.6\main.c

```
#include <p18f4520.h>
#include <delays.h>

#pragma config OSC = HS
#pragma config MCLRE = ON
#pragma config WDT = OFF
#pragma config LVP=OFF

char M[] = {0xc0, 0xf9, 0xa4, 0xb0, 0x99, 0x92, 0}
//cau hinh he thong

int dem=0;
void main (void)
{
    ADCON1=0x0f;
    TRISD=0x00000000;
    TRISC=0x11111111;
    T1CON=0b11000111; //timer1, 16bits,xung T13CK
    TMR1H=0;
    TMR1L=0;
    while (1)
    {
        dem=TMR1L;
        PORTD=M[dem%10];
    }
}
```

Output

Build Version Control Find in Files

Debug build of project 'D:\Download\VL\practice\buoi3\timer\bai2.6\main.mcp' started.
Language tool versions: mpsasmwin.exe v5.54, mplink.exe v5.00, mcc18.exe v3.47, mplib.exe
Preprocessor symbol 'DEBUG' is defined.
Mon Nov 29 13:44:14 2021

Clean: Deleting intermediary and output files.
Clean: Deleted file "D:\Download\VL\practice\buoi3\timer\bai2.6\main.o".
Clean: Deleted file "D:\Download\VL\practice\buoi3\timer\bai2.6\main.cof".
Clean: Deleted file "D:\Download\VL\practice\buoi3\timer\bai2.6\main.hex".
Clean: Deleted file "D:\Download\VL\practice\buoi3\timer\bai2.6\main.mcs".
Clean: Done.

Executing "D:\Mplab\mapleap v3.47\bin\mcc18.exe" -p=18F4520 "main.c" -fo="main.o" -D__D
MPLAB C18 3.47 (feature limited)
Copyright 2000-2011 Microchip Technology Inc.
This version of MPLAB C18 does not support the extended mode
and will not perform all optimizations. To purchase a full
copy of MPLAB C18, please contact your local distributor or
visit buy.microchip.com.

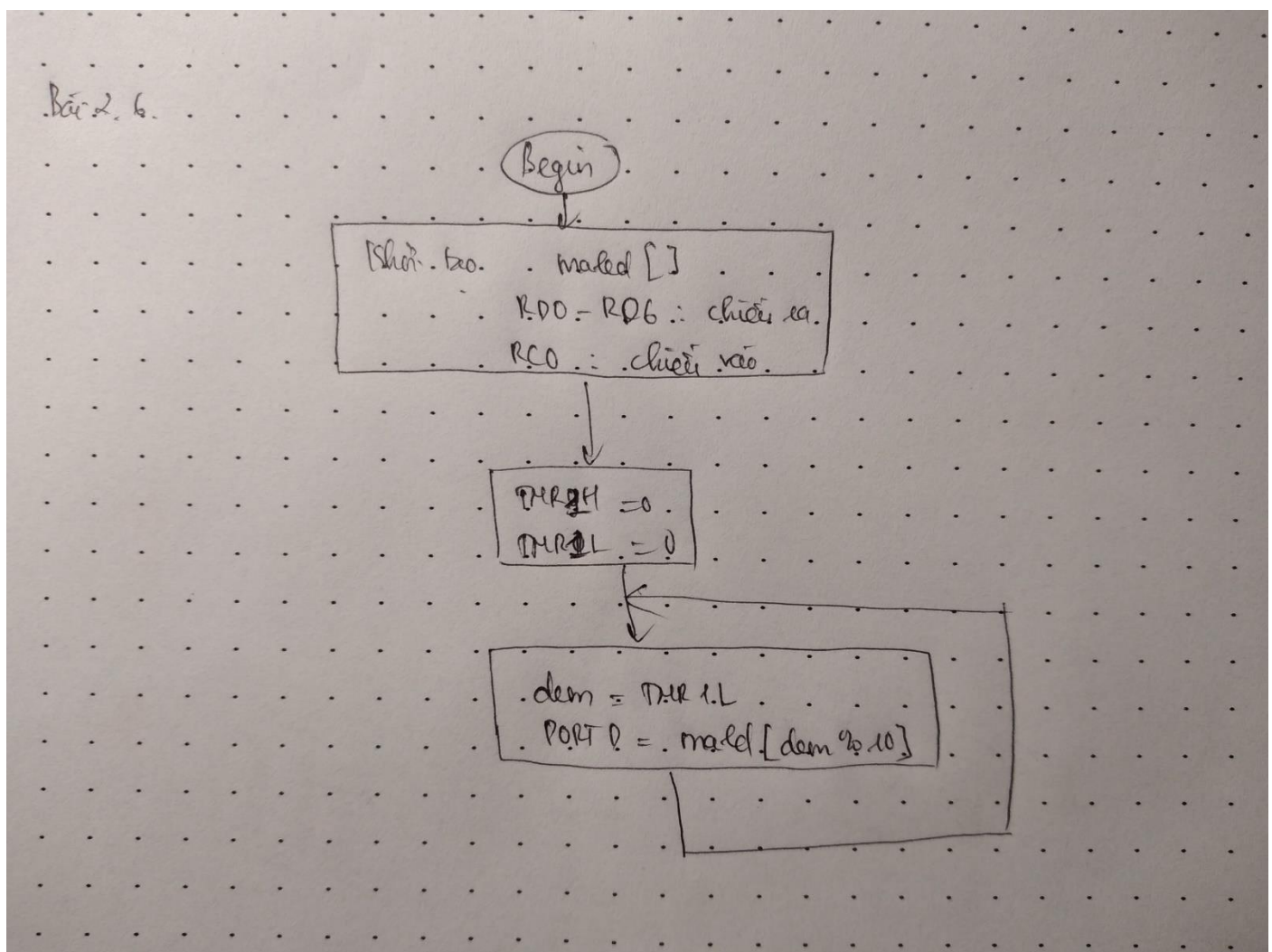
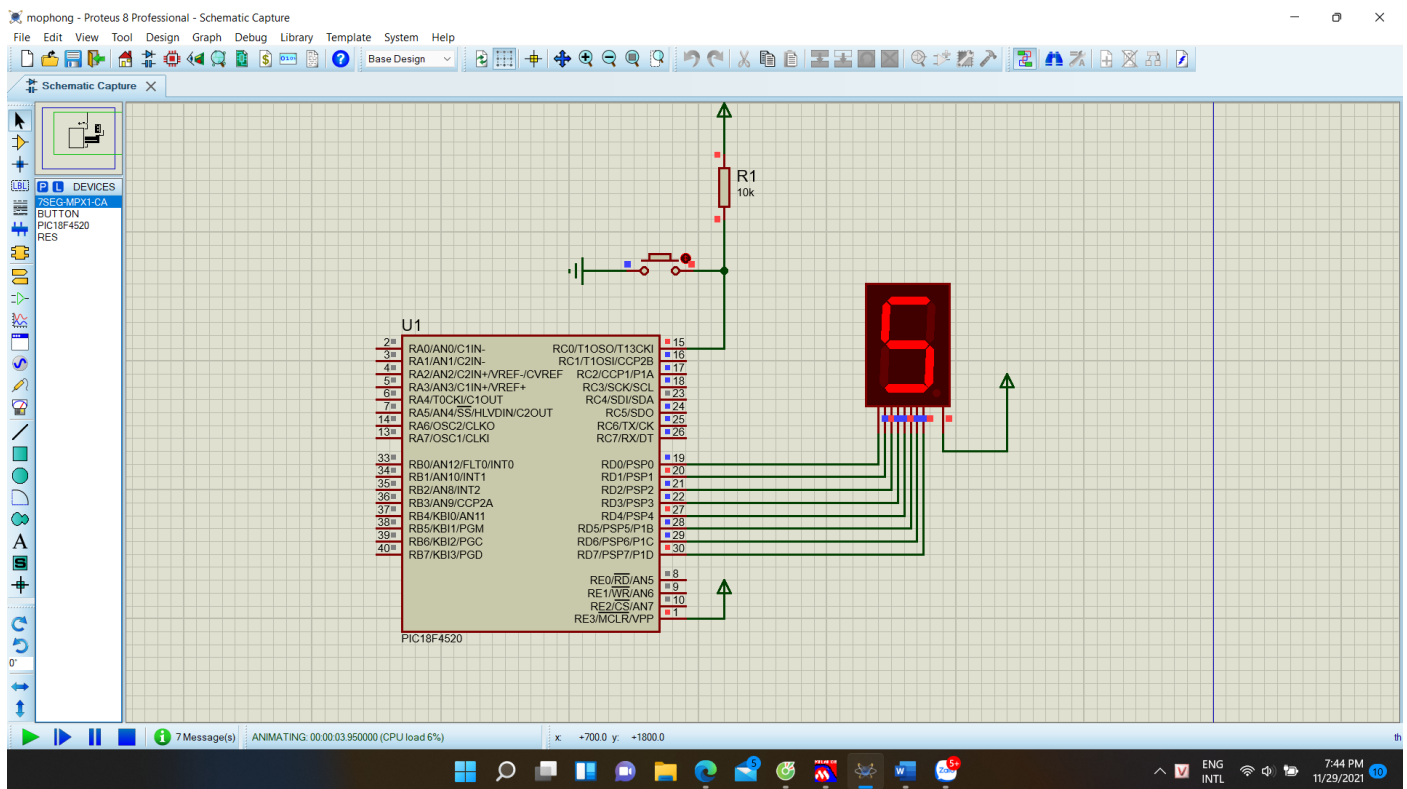
Executing "D:\Mplab\mapleap v3.47\bin\mplink.exe" /p18F4520 /I"D:\Mplab\mapleap v3.47\lib"
MPLINK 5.00, LINKER
Device Database Version 1.17
Copyright (c) 1998-2013 Microchip Technology Inc.
Errors : 0

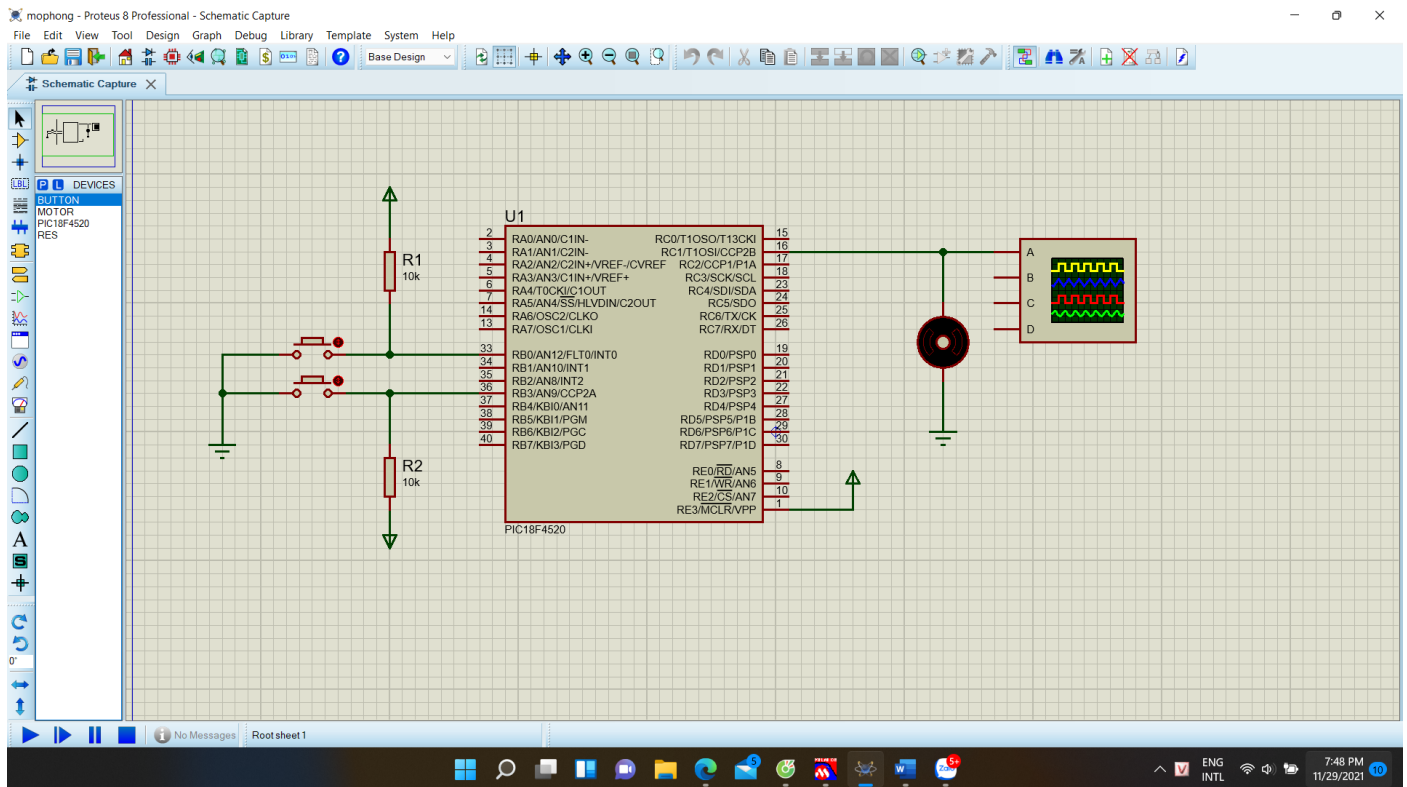
MP2HEX 5.00, COFF to HEX File Converter
Copyright (c) 1998-2013 Microchip Technology Inc.
Errors : 0

Loaded D:\Download\VL\practice\buoi3\timer\bai2.6\main.cof.

Debug build of project 'D:\Download\VL\practice\buoi3\timer\bai2.6\main.mcp' succeeded.
Language tool versions: mpsasmwin.exe v5.54, mplink.exe v5.00, mcc18.exe v3.47, mplib.exe
Preprocessor symbol 'DEBUG' is defined.
Mon Nov 29 13:44:14 2021

BUILD SUCCEEDED





main - MPLAB IDE v8.92

File Edit View Project Debugger Programmer Tools Configure Window Help

Checksum: 0x8a21

Debug

main.mcp

main.mcp

Source Files

main.c

Header Files

Object Files

Library Files

Linker Script

Other Files

Files

Symbols

```
#include <p18f4520.h>
#include <delays.h>
#include <pwm.h>

#pragma config OSC=HS
#pragma config LVP=OFF
#pragma config MCLRE=ON
#pragma config WDT=OFF
#pragma config CCP2MX=PORTC

#define KEY1 PORTBbits.RB0
#define KEY2 PORTBbits.RB3

void main (void)
{
    TRISB=0b11111111;
    TRISC=0b00000000;
    ADCON1=0X0F;

    OpenPWM2(149);
    T2CONbits.T2CKPS1=0;
    T2CONbits.T2CKPS0=1;
    SetDCPWM2(120); //do rong =0

    while (1)
    {
        if(KEY1==0) SetDCPWM2(180);
        else if (KEY2==0) SetDCPWM2(360);
    }
}
```

Output

Build Version Control Find in Files

Debug build of project 'D:\Download\VL\practice\buoi3\PWM\bai2.7\main.mcp' started.
Language tool versions: mpsasmwin.exe v5.54, mplink.exe v5.00, mcc18.exe v3.47, mplib.exe
Preprocessor symbol 'DEBUG' is defined.
Mon Nov 29 19:48:24 2021

Clean: Deleting intermediary and output files.
Clean: Deleted file "D:\Download\VL\practice\buoi3\PWM\bai2.7\main.o".
Clean: Deleted file "D:\Download\VL\practice\buoi3\PWM\bai2.7\main.cof".
Clean: Deleted file "D:\Download\VL\practice\buoi3\PWM\bai2.7\main.hex".
Clean: Deleted file "D:\Download\VL\practice\buoi3\PWM\bai2.7\main.mcs".
Clean: Done.

Executing "D:\Mplab\mapleap v3.47\bin\mcc18.exe" -p=18F4520 "main.c" -fo="main.o" -D__D
MPLAB C18 3.47 (feature limited)
Copyright 2000-2011 Microchip Technology Inc.
This version of MPLAB C18 does not support the extended mode
and will not perform all optimizations. To purchase a full
copy of MPLAB C18, please contact your local distributor or
visit buy.microchip.com.

Executing "D:\Mplab\mapleap v3.47\bin\mplink.exe" /p18F4520 /I"D:\Mplab\mapleap v3.47\lib"
MPLINK 5.00, LINKER
Device Database Version 1.17
Copyright (c) 1998-2013 Microchip Technology Inc.
Errors : 0

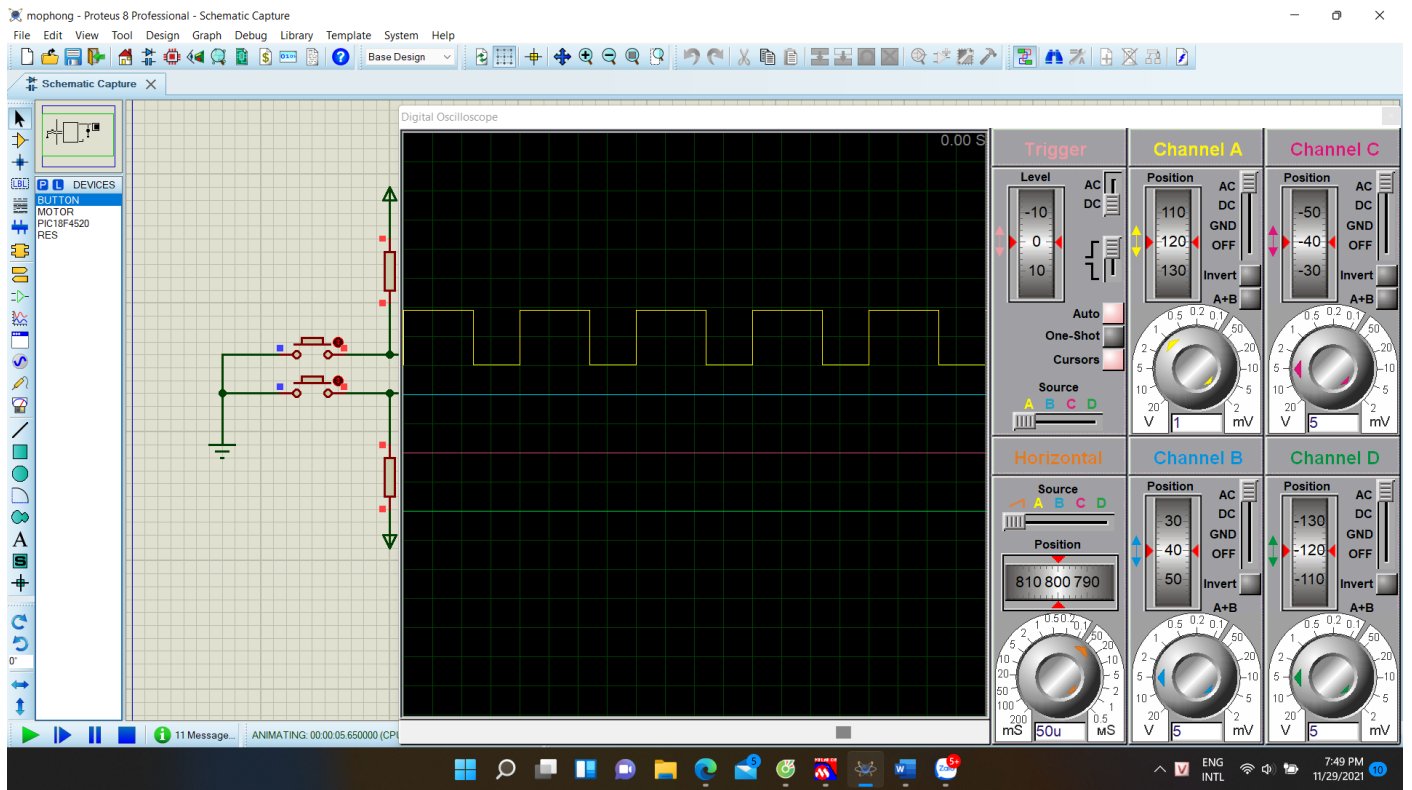
MP2HEX 5.00, COFF to HEX File Converter
Copyright (c) 1998-2013 Microchip Technology Inc.
Errors : 0

Loaded D:\Download\VL\practice\buoi3\PWM\bai2.7\main.cof.

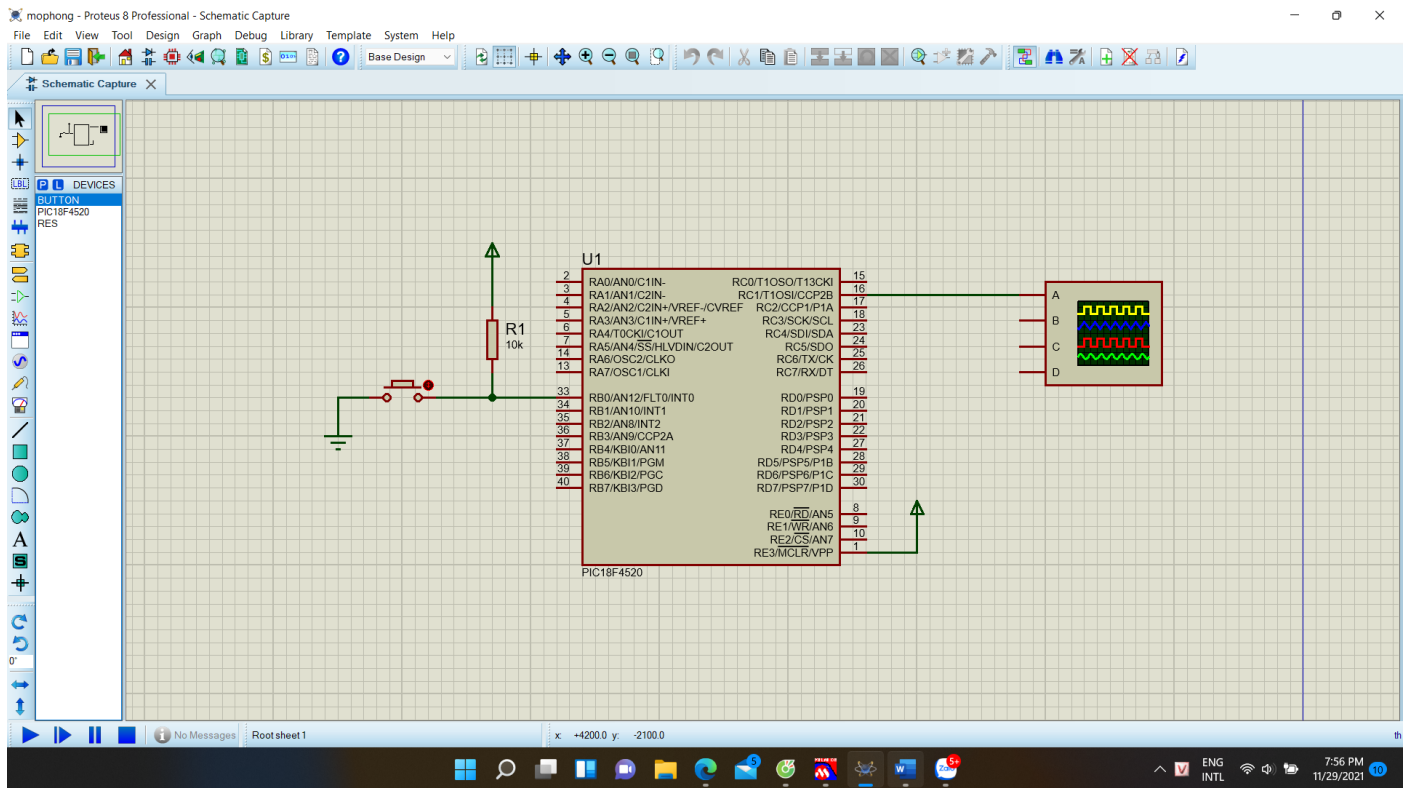
Debug build of project 'D:\Download\VL\practice\buoi3\PWM\bai2.7\main.mcp' succeeded
Language tool versions: mpsasmwin.exe v5.54, mplink.exe v5.00, mcc18.exe v3.47, mplib.exe
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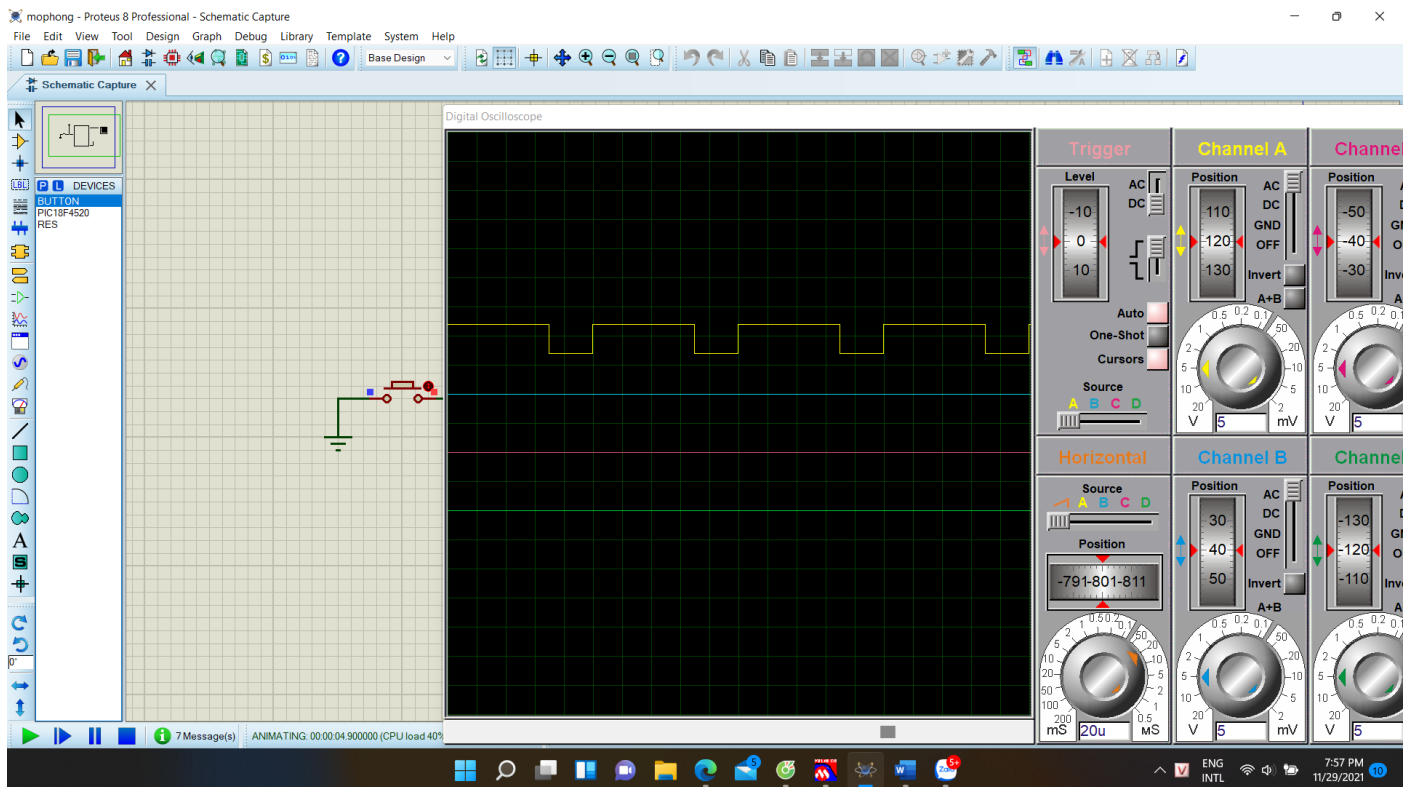
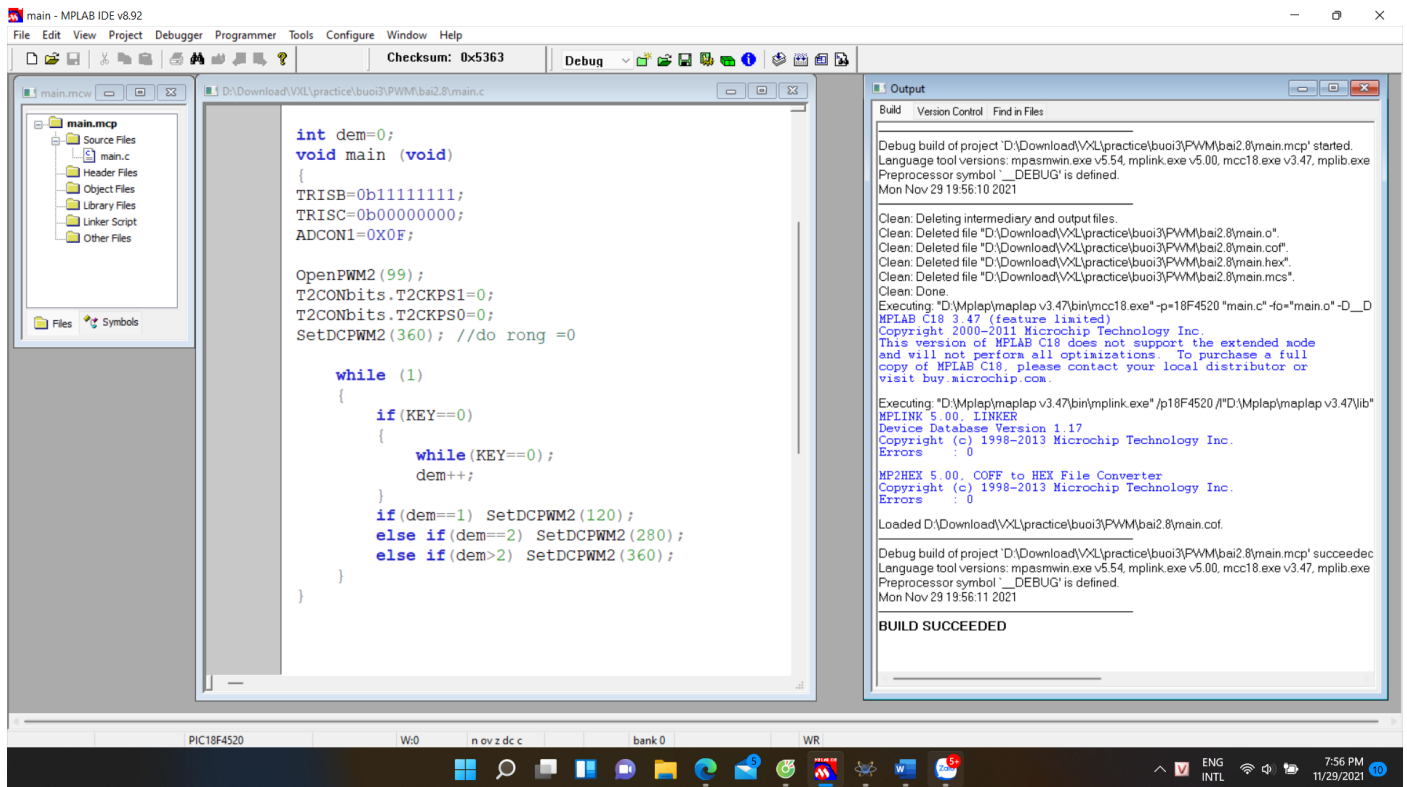
BUILD SUCCEEDED

PIC18F4520 W:0 n ov z dc c bank 0 WR



Bài 2.8





Begin

Rho1 tao . P10 . va , . R1 ra
P1M2 . PR2 = 99 . chia 1
Dutycle . = . 360 .

KEY == 1

KEY == 0

Dutycle . = . 120

void func() {

