

BÀI TẬP BÀI THỰC HÀNH 02.

1. Họ tên: Nguyễn Thị Thủy

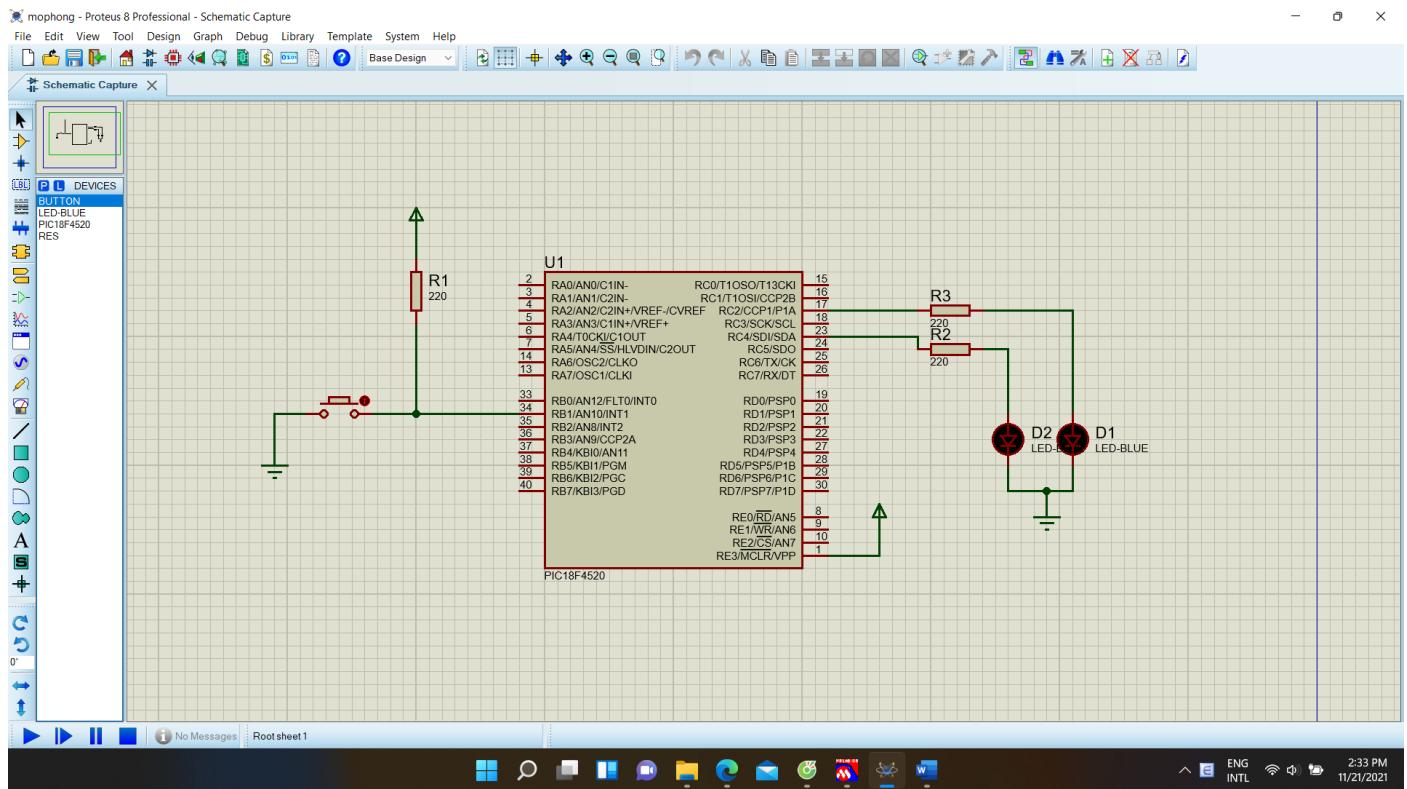
MSV: 2020605575

2. Lớp: FE6044.5

3. Nhóm: Ngày, thứ, ca thực hành: thứ 4, 17/11/2021, tiết 7 8 9 10 11 12

4. Nội dung bài tập

4.1 Bài tập 2.1



bai - MPLAB IDE v8.92

File Edit View Project Debugger Programmer Tools Configure Window Help

Checksum: 0x90d2 | Debug |

Output

```

Build Version Control Find in Files
Debug build of project 'D:\Download\VL\practice\bui02\ngat\bai\main.c' started.
Language tool versions: mpasmwin.exe v5.54, mplink.exe v5.00, micc18.exe v3.47, mplib.exe
Preprocessor symbol '_DEBUG' is defined.
Sun Nov 21 14:26:49 2021

Clean: Deleting intermediary and output files.
Clean Warning: File "D:\Download\VL\practice\bui02\ngat\main.o" doesn't exist.
Clean Warning: File "D:\Download\VL\practice\bui02\ngat\bai2.cof" doesn't exist.
Clean Warning: File "D:\Download\VL\practice\bui02\ngat\bai2.hex" doesn't exist.
Clean: Deleted file "D:\Download\VL\practice\bui02\ngat\bai2.cms".
Clean: Done.

Executing "D:\Mplab\maplepl v3.47\bin\nmc18.exe" -p=18F4520 "main.c" -fo="main.o" -D _DEBUG
MPLAB C18 v3.47 (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 www.microchip.com.

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

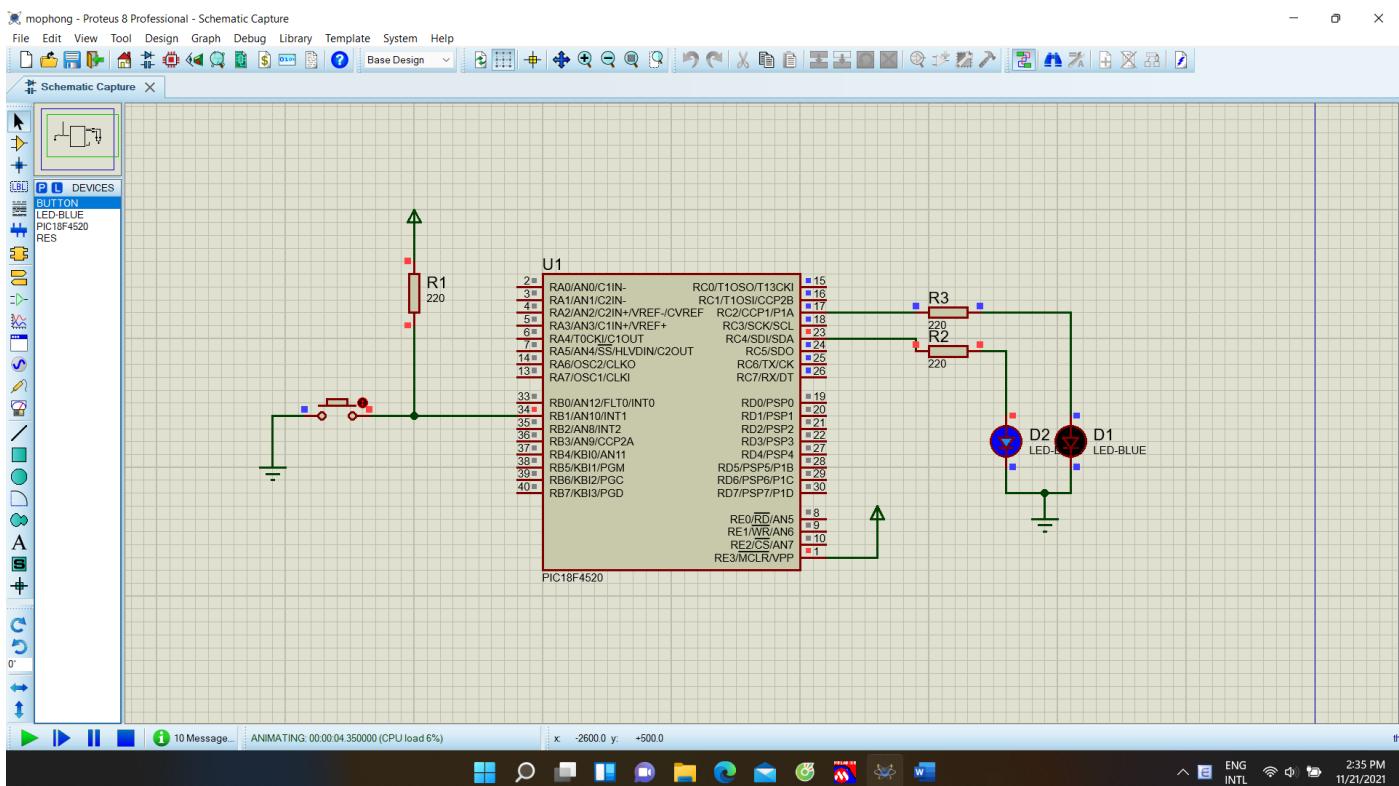
MP2HEX 5.00. COFF to HEX File Converter
Copyright (c) 1998-2013 Microchip Technology Inc.
Errors : 0

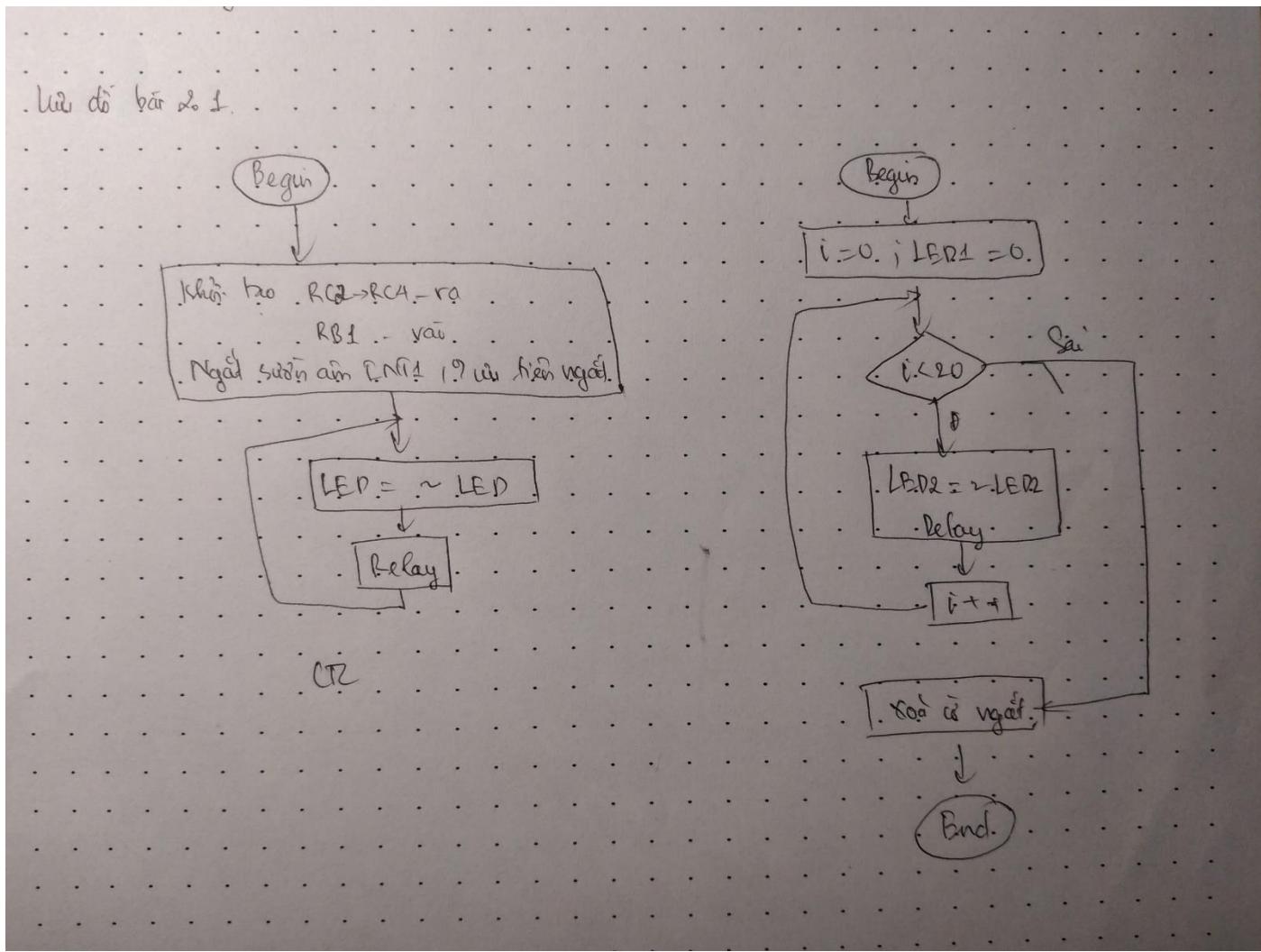
Loaded D:\Download\VL\practice\bui02\ngat\main.o.

Debug build of project 'D:\Download\VL\practice\bui02\ngat\main.c' succeeded.
Language tool versions: mpasmwin.exe v5.54, mplink.exe v5.00, micc18.exe v3.47, mplib.exe
Preprocessor symbol '_DEBUG' is defined.
Sun Nov 21 14:26:50 2021

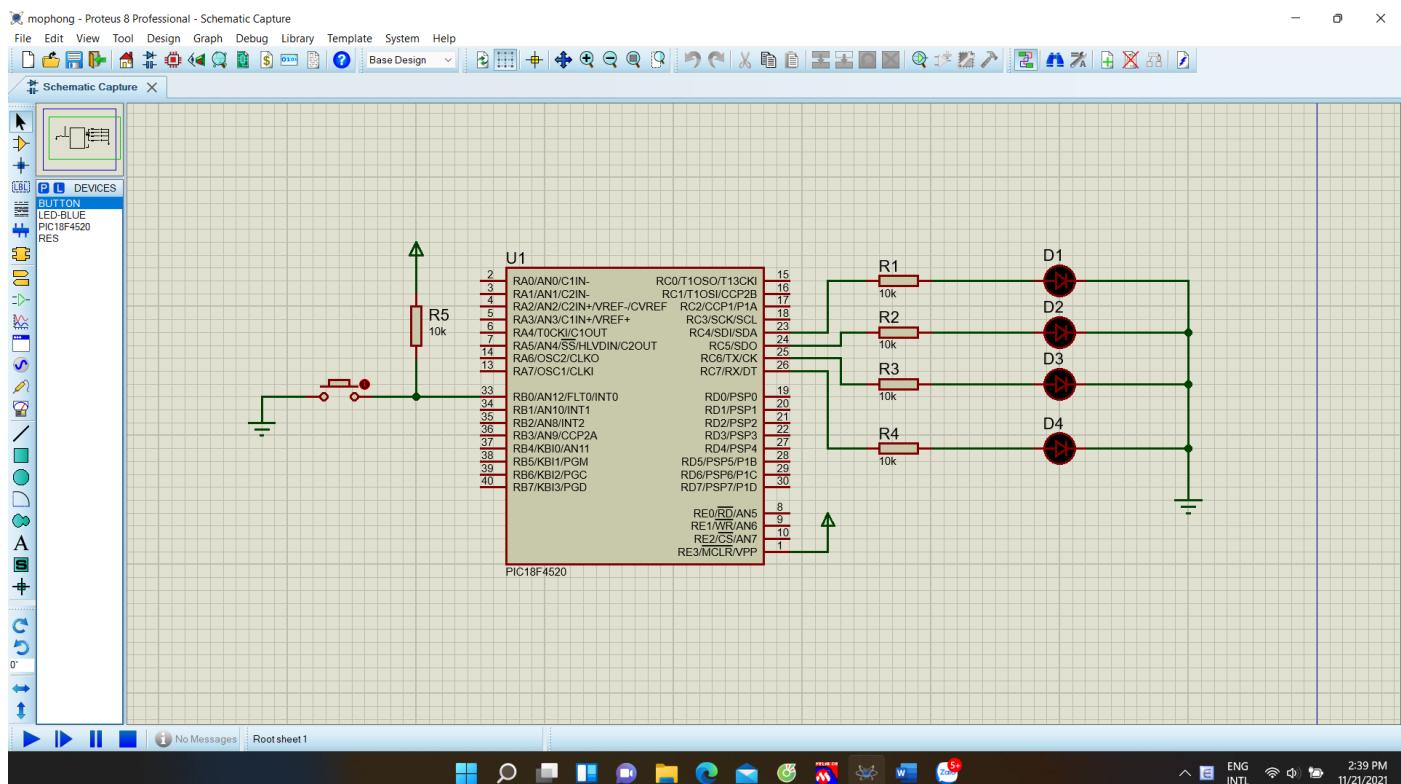
BUILD SUCCEEDED

```





4.2 Bài tập 2.2



bai - MPLAB IDE v8.92

File Edit View Project Debugger Programmer Tools Configure Window Help

Checksum: 0xb85d | Debug |

bai.mcp D:\Download\XVL\practice\bai2.ngat.bai2.mcp

Output

```

Build Version Control Find in Files
Debug build of project 'D:\Download\XVL\practice\bai2.ngat\bai2\bai2.mcp' started.
Language tool versions: mpasmwin.exe v5.54, mplink.exe v5.00, mccc18.exe v3.47, mplib.exe
Preprocessor symbol '_DEBUG' is defined.
Sun Nov 21 14:40:01 2021

Clean: Deleting intermediary and output files.
Clean: Deleted file "D:\Download\XVL\practice\bai2.ngat\bai2\bai2\main.o".
Clean: Deleted file "D:\Download\XVL\practice\bai2.ngat\bai2\bai2\cof".
Clean: Deleted file "D:\Download\XVL\practice\bai2.ngat\bai2\bai2\hex".
Clean: Deleted file "D:\Download\XVL\practice\bai2.ngat\bai2\bai2\mcv".
Clean: Done.

Executing "D:\Mplab\maple\maple v3.47\bin\mnc18.exe" -p=18F4520 "main.c" -fo="main.o" -D _DEBUG
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\maple\maple v3.47\bin\mplink.exe" /p18F4520 /"D:\Mplab\maple\maple 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\XVL\practice\bai2.ngat\bai2\bai2.cof.

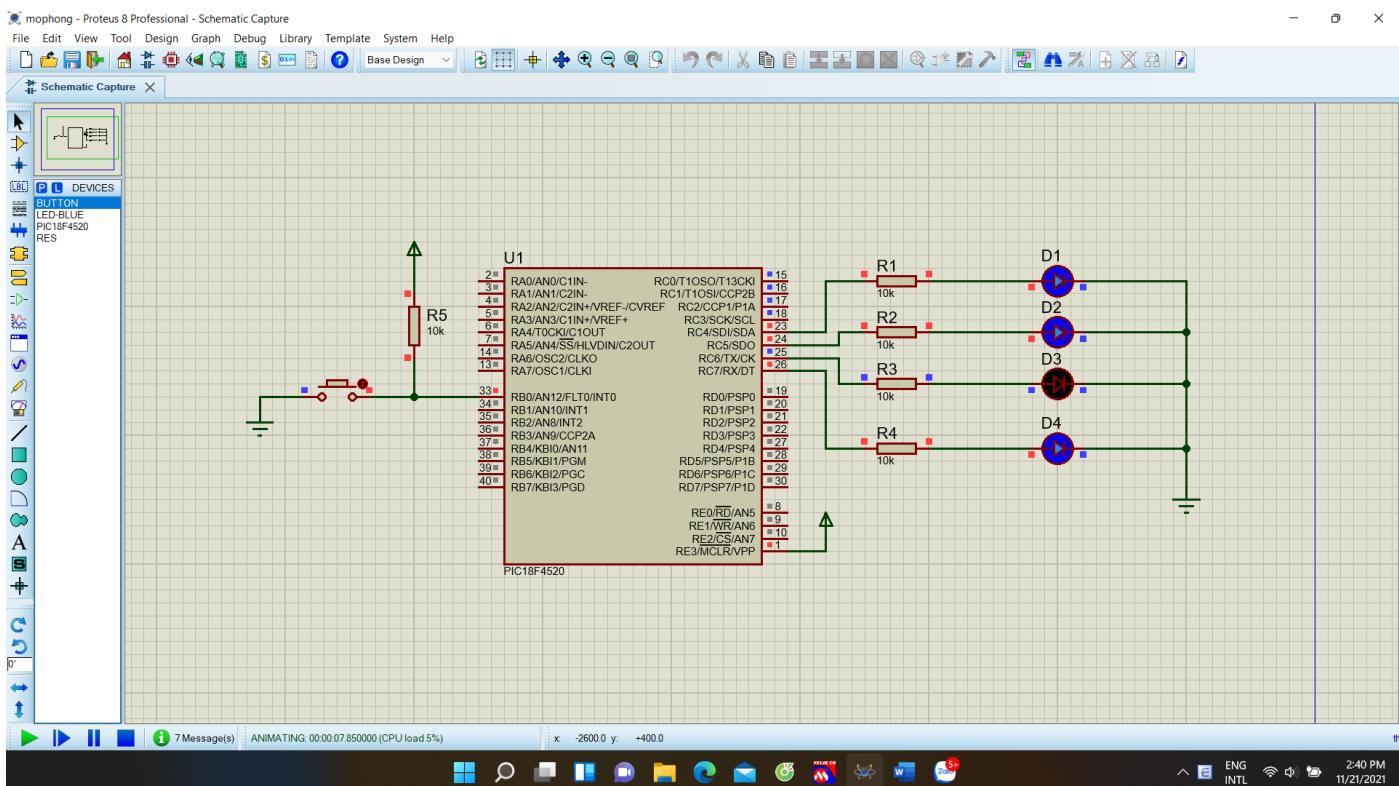
Debug build of project 'D:\Download\XVL\practice\bai2.ngat\bai2\bai2.mcp' succeeded.
Language tool versions: mpasmwin.exe v5.54, mplink.exe v5.00, mccc18.exe v3.47, mplib.exe
Preprocessor symbol '_DEBUG' is defined.
Sun Nov 21 14:40:02 2021

BUILD SUCCEEDED

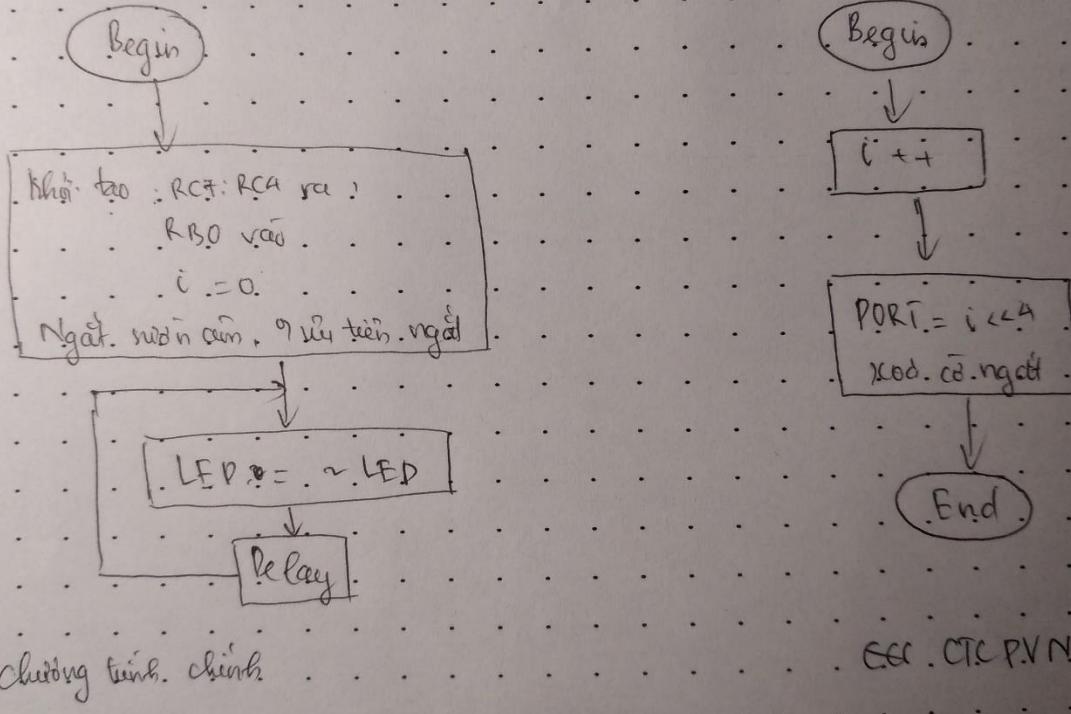
```

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

ENG INTL 2:40 PM 11/21/2021

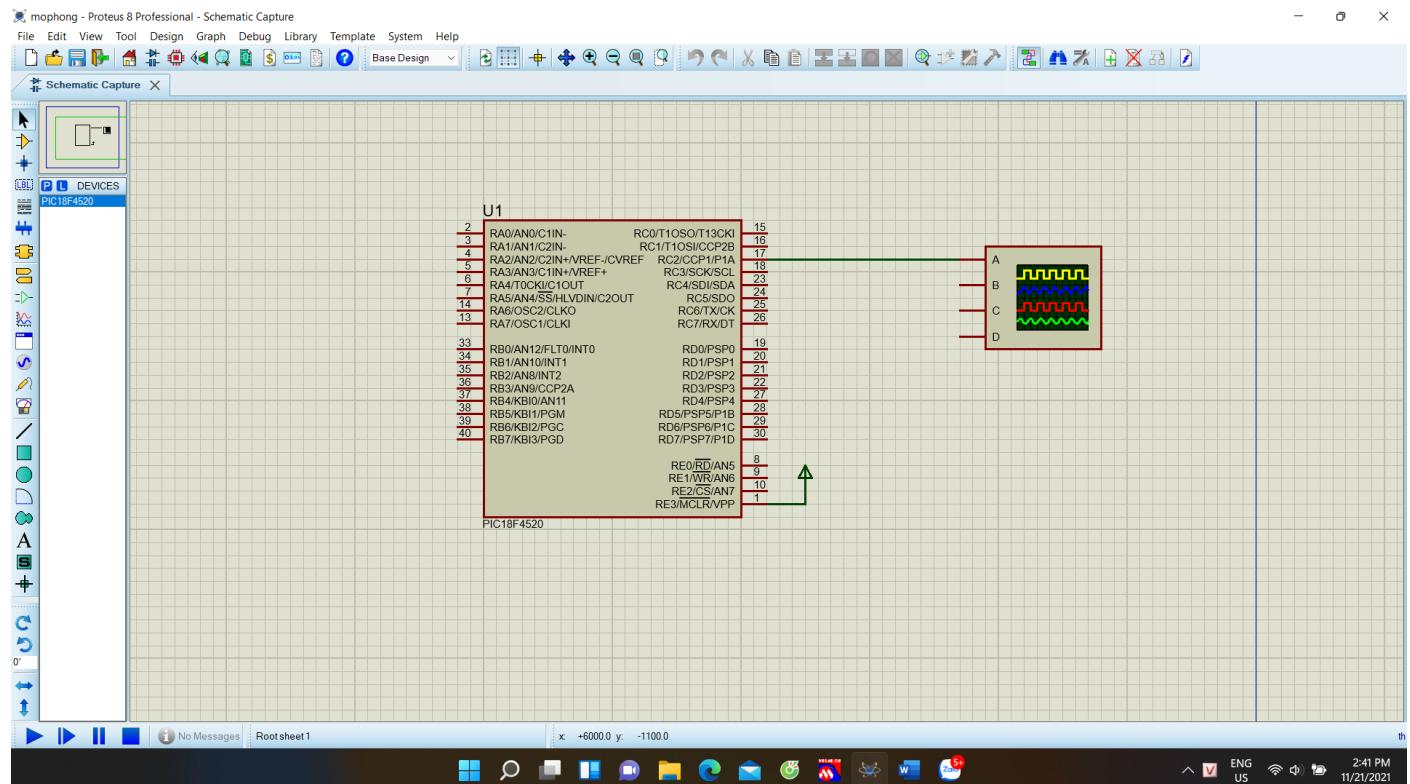


Lưu đề: bài 2.2



ECC CTC PVN

4.3 Bài tập 2.3



bai3 - MPLAB IDE v8.92

File Edit View Project Debugger Programmer Tools Configure Window Help

Checksum: 0xdaf0 | Debug |

Output

```

Build Version Control Find in Files
Debug build of project 'D:\Download\VL\practice\bui02\timer\bai3' started.
Language tool versions: mpasmwin.exe v5.54, mplink.exe v5.00, mcc18.exe v3.47, mplib.exe
Preprocessor symbol '_DEBUG' is defined.
Sun Nov 21 14:41:29 2021

Clean: Deleting intermediary and output files.
Clean Warning: File "D:\Download\VL\practice\bui02\timer\bai3\bai3.mcp" doesn't exist.
Clean Warning: File "D:\Download\VL\practice\bui02\timer\bai3\bai3.cof" doesn't exist.
Clean Warning: File "D:\Download\VL\practice\bui02\timer\bai3\bai3.hex" doesn't exist.
Clean: Deleted file "D:\Download\VL\practice\bui02\timer\bai3\bai3.mcs".
Clean: Done.

Executing "D:\Mplab\mapleap\v3.47\bin\mnc18.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

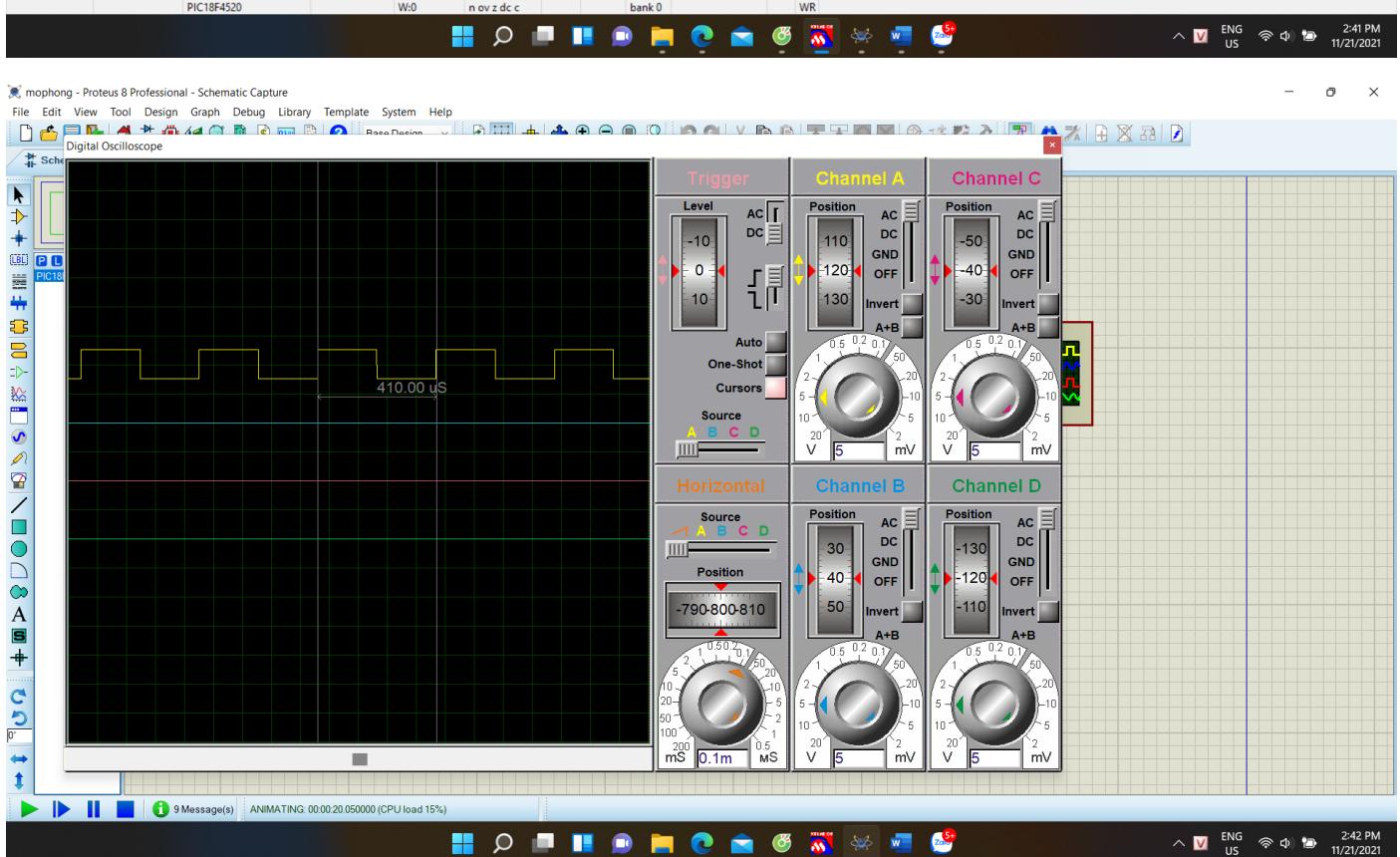
MP2HEX 5.00. COFF to HEX File Converter
Copyright (c) 1998-2013 Microchip Technology Inc.
Errors : 0

Loaded D:\Download\VL\practice\bui02\timer\bai3\bai3.cof.

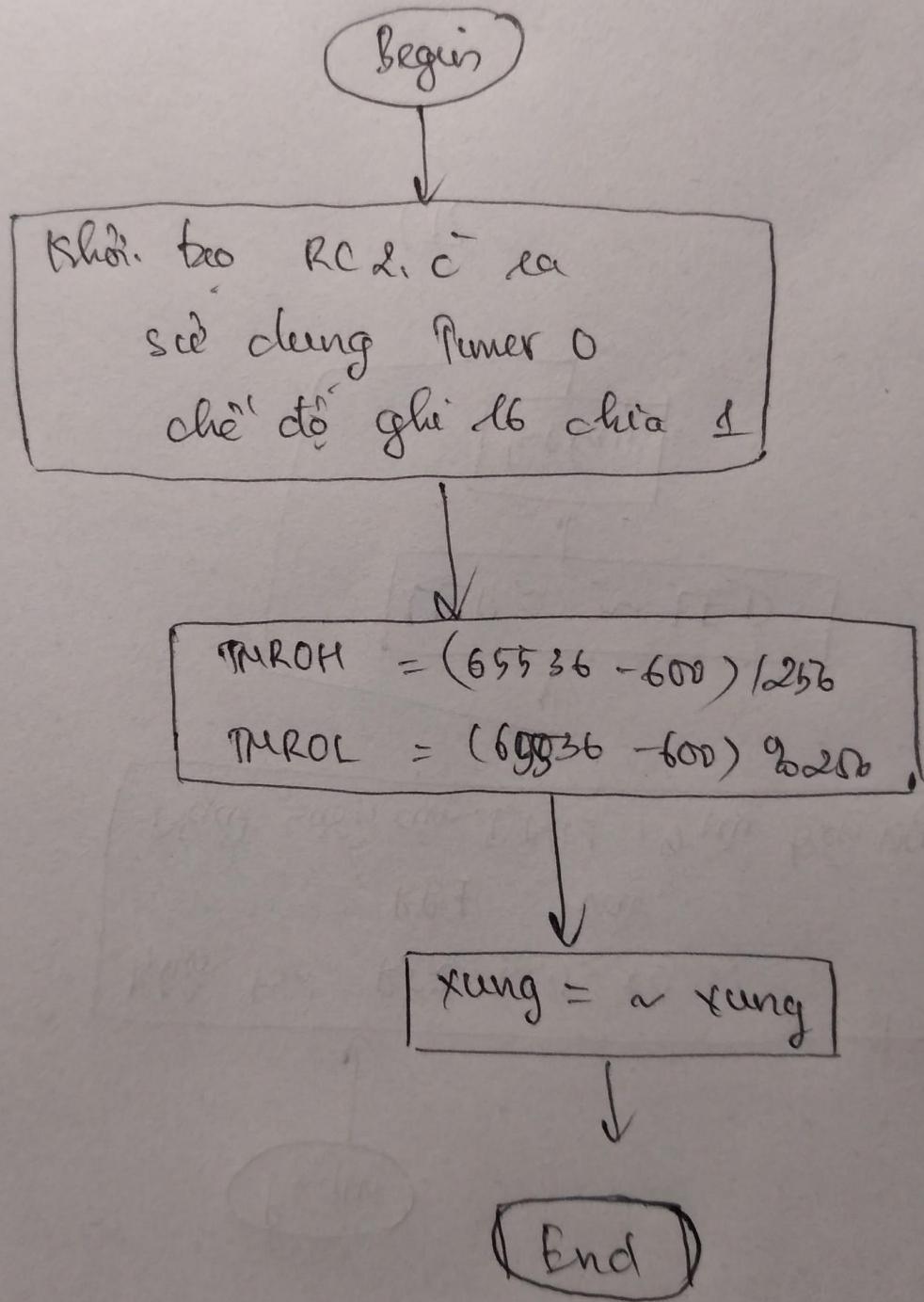
Debug build of project 'D:\Download\VL\practice\bui02\timer\bai3\bai3.mcp' succeeded.
Language tool versions: mpasmwin.exe v5.54, mplink.exe v5.00, mcc18.exe v3.47, mplib.exe
Preprocessor symbol '_DEBUG' is defined.
Sun Nov 21 14:41:30 2021

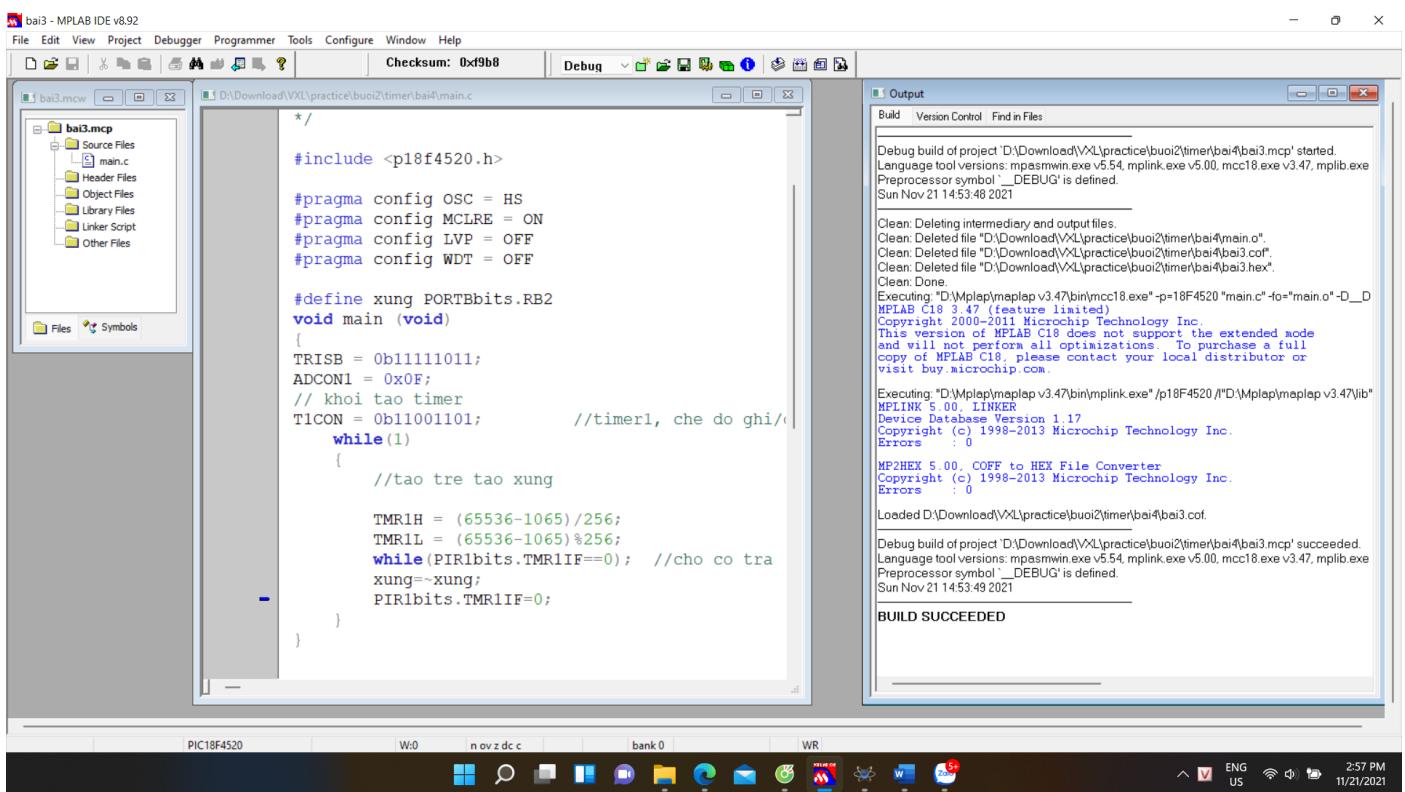
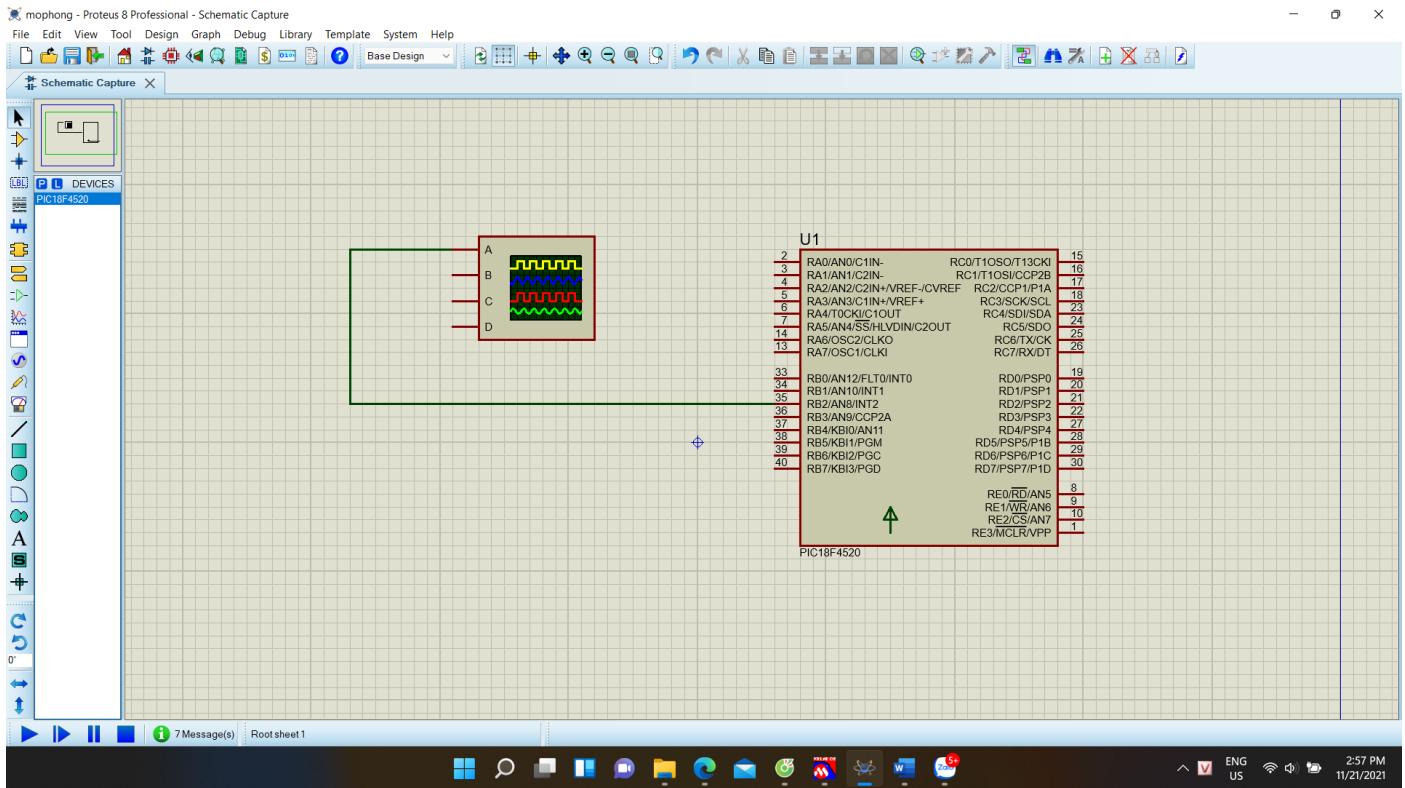
BUILD SUCCEEDED

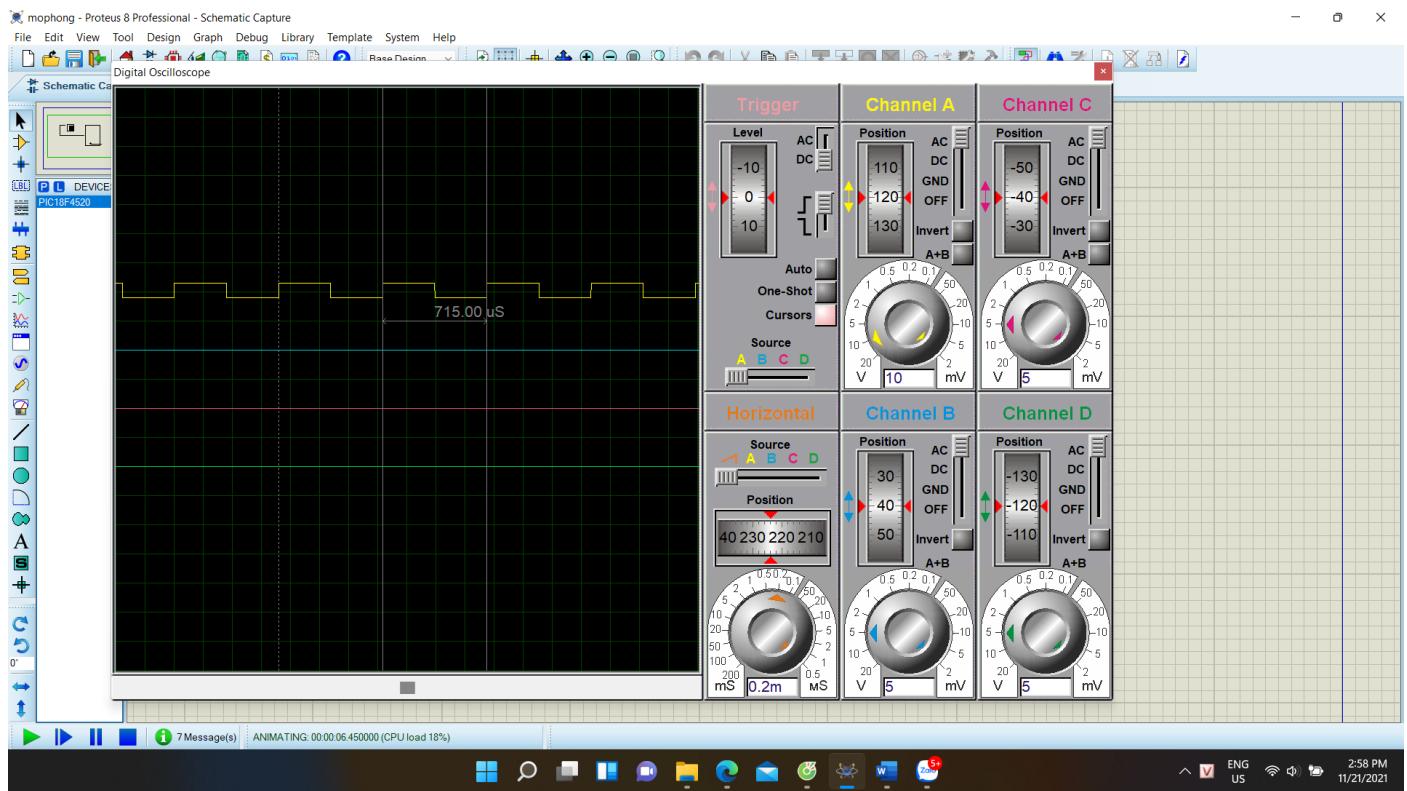
```



Kết quả số 3







lưu trữ số 4

begin

Khởi tạo RB & c_ia
sử dụng timer 1
chè' số ghi 16, chia 1

$$TMR_{IH} = (65536 - 1065) / 252$$
$$TMR_{IL} = (65536 - 1065) \% 252$$

Xeung = ~ xeung

Bعد