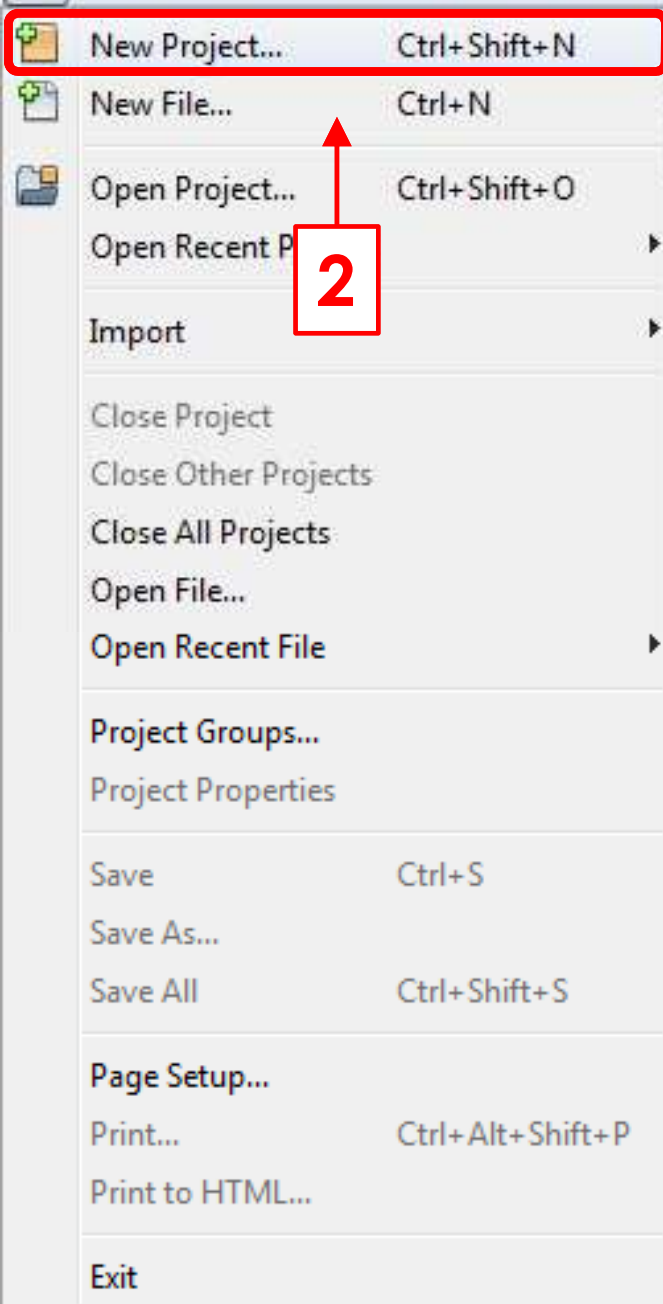


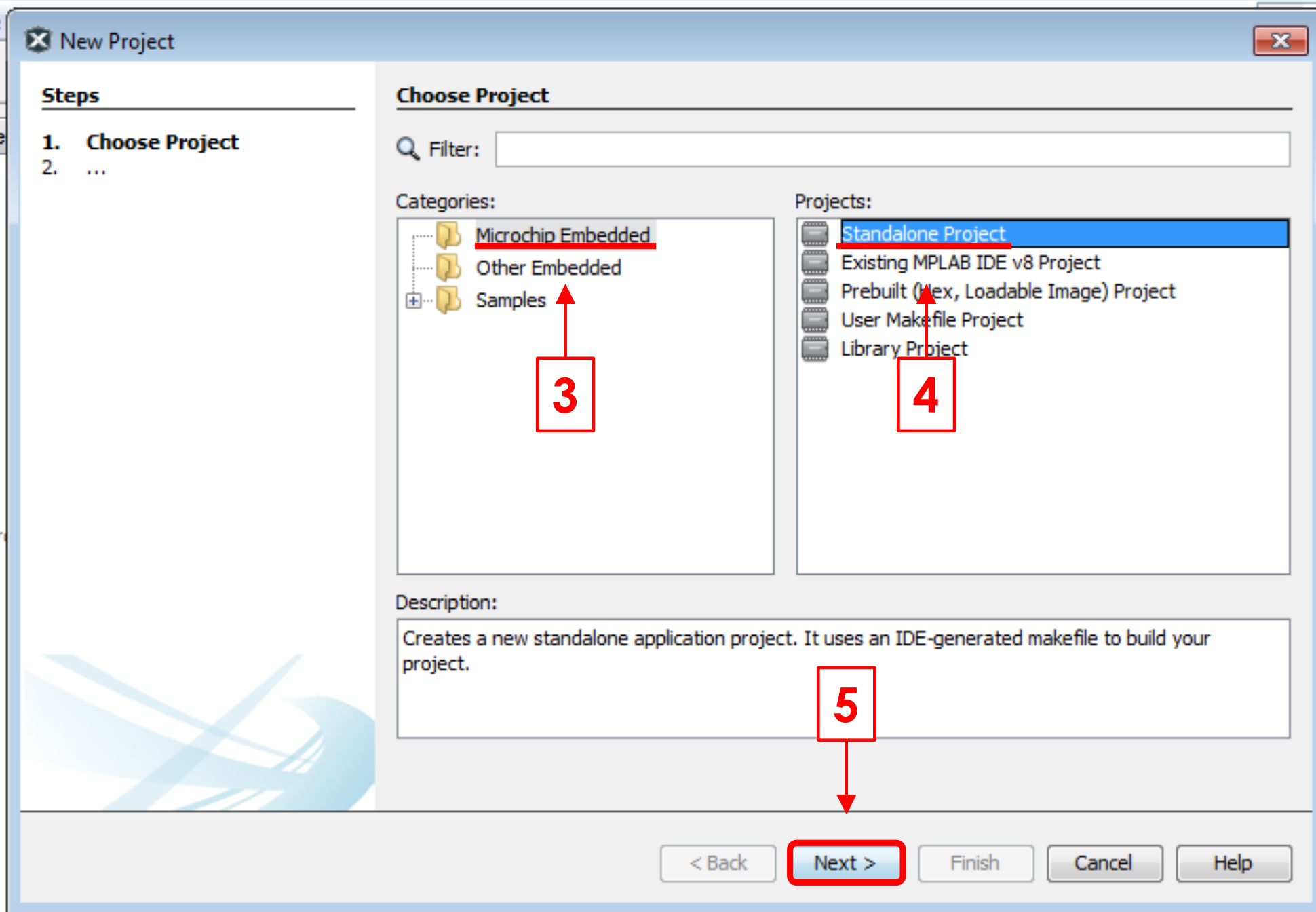
MPLAB X IDE v3.45

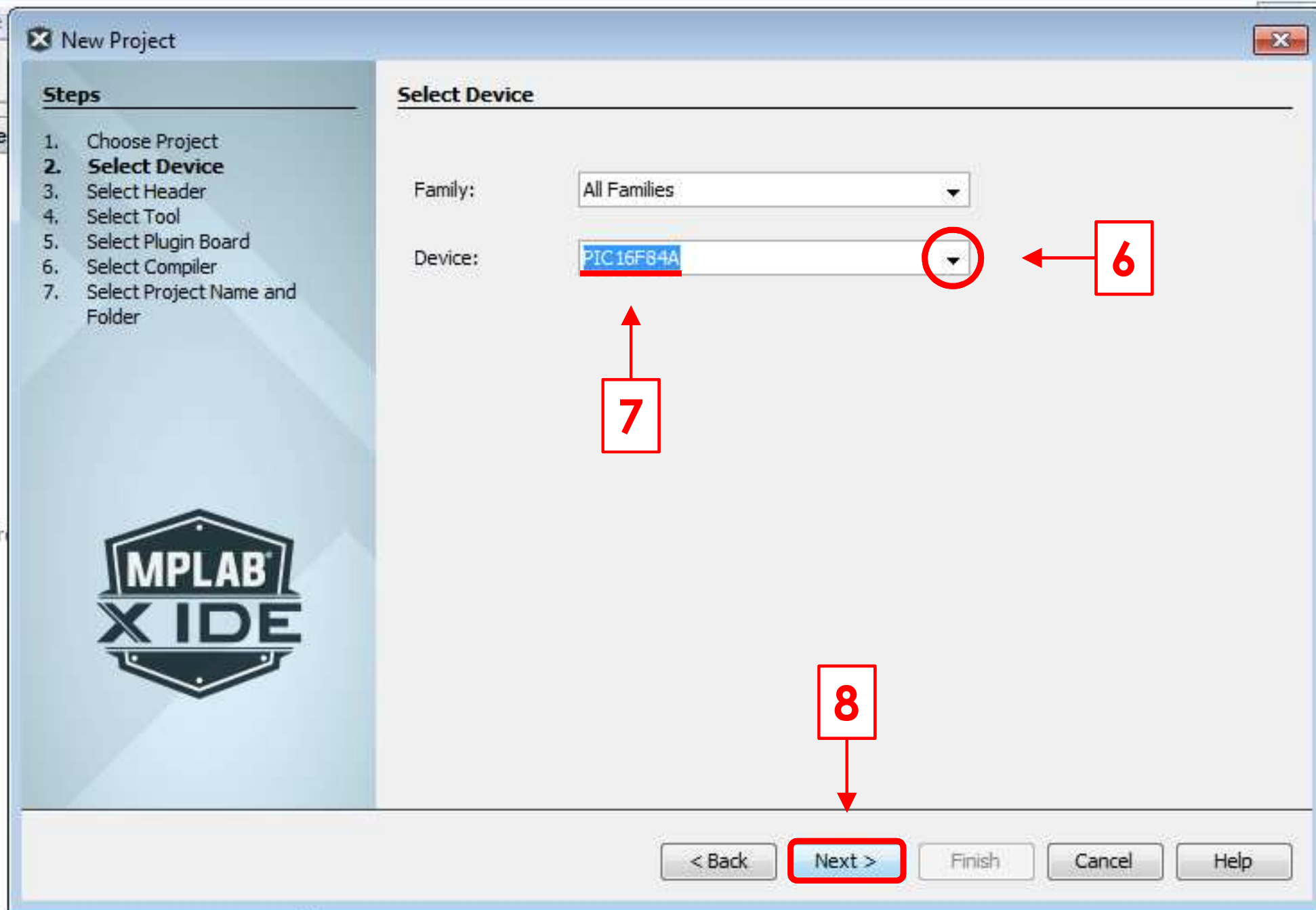




<No Project Open>







New Project

Steps

1. Choose Project
2. Select Device
3. ...

Select Tool

- Hardware Tools
 - ICD 3
 - PICKit2
 - PICKit3**
 - PM3
 - Real ICE
 - Simulator
- Microchip Starter Kits
- Other Tools
 - Licensed Debugger

9



Light	Color	Support
	Green	Full (Implemented and fully tested)
	Yellow	Beta (Implemented but not fully tested)
	Red	None

Light No.	Debug Tools	Simulator
1	Debugger Support	Core (Instruction Set) Support
2	Programmer Support	Peripheral Support

< Back

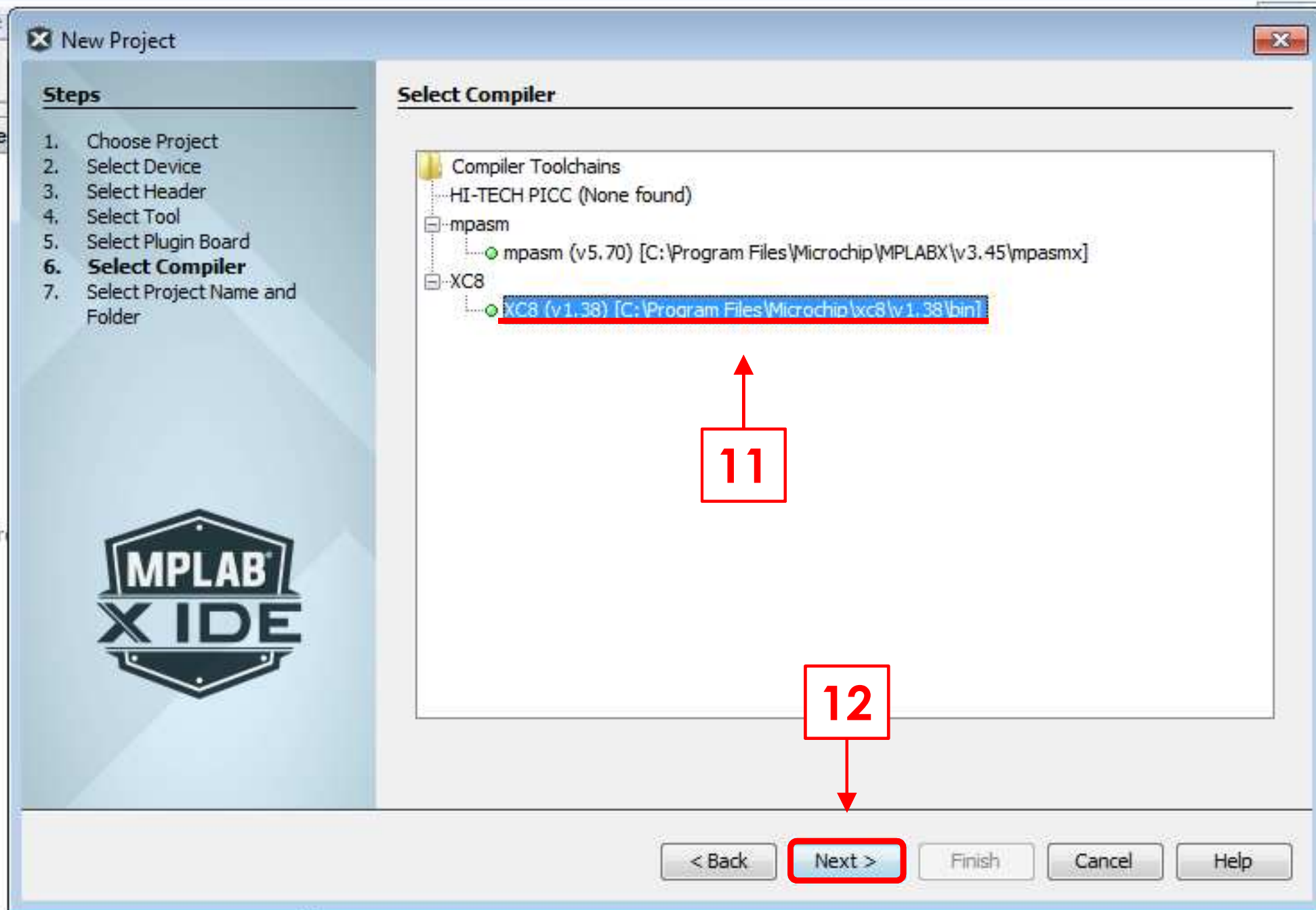
Next >

Finish

10

Cancel

Help



New Project

Steps

1. Choose Project
2. Select Device
3. Select Header
4. Select Tool
5. Select Plugin Board
6. Select Compiler
7. **Select Project Name and Folder**



Select Project Name and Folder

Project Name:

pressButton

13

Project Location:

rs\Tiago\Documents\MPLAB\X\PIC 16F84A\pressButton

Browse...

Project Folder:

rs\Tiago\Documents\MPLAB\X\PIC 16F84A\pressButton

☐ Overwrite existing project.

☐ Also delete sources.

☒ Set as main project

☒ Use project location as the project folder

14

15

Encoding:

ISO-8859-1

< Back

Next >

Finish

Cancel

Help

New Project

Steps

1. Choose Project
2. Select Device
3. Select Header
4. Select Tool
5. Select Plugin Board
6. Select Compiler
7. **Select Project Name and Folder**



Select Project Location



Itens Recentes



Área de Trab...



Documentos



Computador



Rede

Pesquisar em:

pressButton

16

17

Nome do arquivo:

ents\MPLAB\X\PIC 16F84A\pressButton

Arquivos do tipo:

Todos os Arquivos

Abrir

Cancelar

< Back

18

Next >

Finish

Cancel

Help

Projects **Files** **Services** **Classes**

pressButton

- Header Files
- Important Files
- Linker Files
- Source Files
- Libraries
- Loadables

19

pressButton - Da... **updateContent() - Na...**

- pressButton
 - Project Type: Application - Configuration: d
 - Device
 - PIC16F84A
 - Checksum: Blank, no code loaded
 - Compiler Toolchain
 - XC8 (v1.38) [C:\Program Files\Microchip
 - Production Image: Optimization: +space
 - Memory
 - Usage Symbols disabled. Click to enable
 - Data 68 (0x44) bytes

Projects **Files** **Services** **Class**

pressButton

- Header Files
- Important Files
- Linker Files
- Source Files
- Libraries
- Loadable

pressButton - Da...

- pressButton
- Project
- Device
- PIC
- Che
- Compile
- XC8
- Proc
- Memory
- Usage Symbols disabled. Click to enable
- Data 68 (0x44) bytes

New

- Directory...
- xc8_header.h...
- pic_8b_asm_func.asm...
- main.c...
- Text File...
- Other...

20

21

22

New main.c

Steps

1. Choose File Type
2. **Name and Location**

Name and LocationFile Name: pressButton

Extension:

c☐ Set this Extension as DefaultProject: pressButton

Folder:

Browse...

Created File: C:\Users\Tiago\Documents\MPLAB\X\PIC 16F84A\pressButton\pressButton.c

23

24

< Back

Next >

Finish

Cancel

Help

25

default

Projects Files Services Classes

pressButton

- Header Files
- Important Files
- Linker Files
- Source Files
 - pressButton.c
- Libraries
- Loadables

pressButton - Dashboard Navigator

pressButton

- Project Type: Application - Configuration:
- Device
 - PIC16F84A
 - Checksum: Blank, no code loaded
- Compiler Toolchain
 - XC8 (v1.38) [C:\Program Files\Microch
 - Production Image: Optimization: +spa
- Memory
 - Usage Symbols disabled. Click to enabl
 - Data 68 (0x44) bytes

Source Histor

1 /*

2 * E

3 * A

4 * Z

5 * C

6 */

7

8

9 #inc

10

11 void

12

13 }

Projects Ctrl+1

Files Ctrl+2

Classes Ctrl+9

Favorites Ctrl+3

Services Ctrl+5

Dashboard

Navigator Ctrl+7

Action Items Ctrl+6

Tasks Ctrl+Shift+6

Output Ctrl+4

Editor Ctrl+0

Debugging

Web

IDE Tools

PIC Memory Views

Simulator

Configure Window

Reset Windows

Close Window Ctrl+W

Close All Documents Ctrl+Shift+W

Close Other Documents

Document Groups

26

27

PC: 0x0 z dc c : W:0x0 : bank

17, 10:09

Program Memory

File Registers

SFRs

Configuration Bits

EE Data Memory

User ID Memory

File Edit View Run Debug Team Tools Window Help

Search (Ctrl+I)

PC: 0x0 z dc c : W:0x0 : bank 0

pressButton.c

Source History

Configuration Bits

Address	Name	Value	Field	Option	Category	Setting
2007	CONFIG	FFF1	FOSC	<u>XT</u>	Oscillator Selection bits	XT oscillator
			WDTE	<u>OFF</u>	Watchdog Timer	WDI disabled
			PWRTE	<u>ON</u>	Power-up Timer Enable bit	Power-up Timer is en...
			CP	OFF	Code Protection bit	Code protection disabled

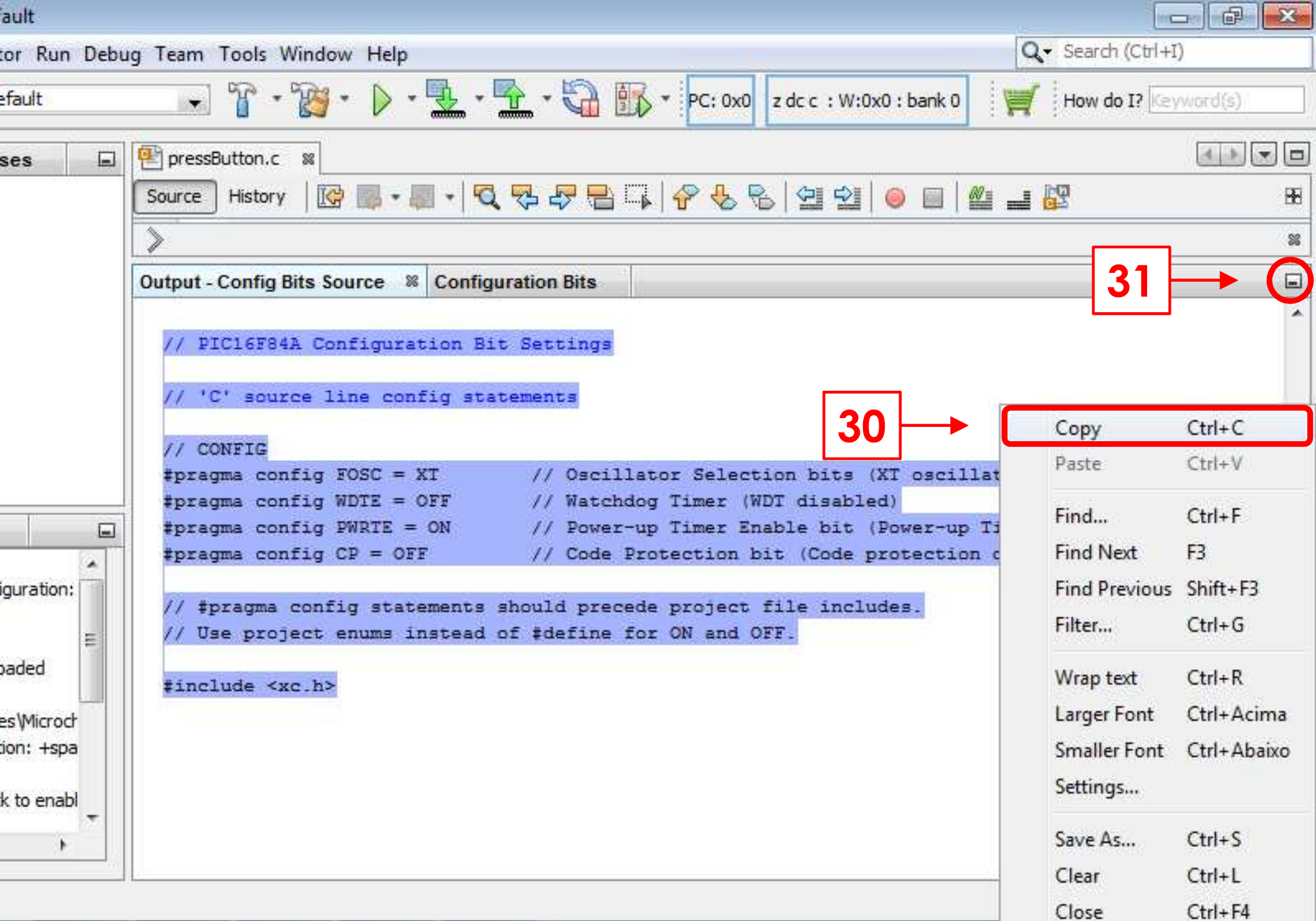
28

29

Memory Configuration Bits Format Read/Write

Generate Source Code to Output

Generate initialization code for current configuration bit values. Copy and paste output to a project source file.



33



Search (Ctrl+I)

PC: 0x0

z dc c : W:0x0 : bank 0

How do I? Keyword(s)

pressButton.c

Source

History

```
8 // CONFIG
9 #pragma config FOSC = XT // Oscillator Selection bits (XT oscillator)
10 #pragma config WDTE = OFF // Watchdog Timer (WDT disabled)
11 #pragma config PWRTE = ON // Power-up Timer Enable bit (Power-up Timer is enabled)
12 #pragma config CP = OFF // Code Protection bit (Code protection disabled)
13 #include <xc.h>
14 void main(void)
15 {
16     TRISB=0; // Set RB<7:0> as outputs
17     while(1) // Infinite loop
18     {
19         if(RA0==0) // Test PORTA bit RA0
20         {
21             RB0=1; // Set PORTB bit RB0
22         }
23         else
24         {
25             RB0=0; // Clear PORTB bit RB0
26         }
27     }
28 }
```

32

3

1:3

INS



Output - pressButton (Build, Load)

Copyright (C) 2016 Microchip Technology Inc.
License type: Node Configuration

:: warning: (1273) Omniclient Code Generation not available in Free mode

Memory Summary:

Program space	used	Bh (11) of 400h words (1.1%)
Data space	used	2h (2) of 44h bytes (2.9%)
EEPROM space	used	0h (0) of 40h bytes (0.0%)
Data stack space	used	0h (0) of 42h bytes (0.0%)
Configuration bits	used	1h (1) of 1h word (100.0%)
ID Location space	used	0h (0) of 4h bytes (0.0%)

34

You have compiled in FREE mode.

Using Omniclient Code Generation that is available in PRO mode,
you could have produced up to 60% smaller and 400% faster code.

See <http://www.microchip.com/MPLABXCcompilers> for more info.

make[2]: Leaving directory 'C:/Users/Tiago/Documents/MPLAB/X/PIC16F84A/pressButton'

make[1]: Leaving directory 'C:/Users/Tiago/Documents/MPLAB/X/PIC16F84A/pressButton'

BUILD SUCCESSFUL (total time: 10s)

Loading code from C:/Users/Tiago/Documents/MPLAB/X/PIC16F84A/pressButton/dist/default/production/pressButton

Loading completed

35