Installation of the Keil uVision Development Software, version 5

(Runs on Microsoft Windows 7,8,9,and 10)

 Go to https://www.keil.com/download/product/ page and select MDK-Arm. Download the installer program (a file likely named mdk533.exe) and start it. This is a big file, about 924 megabytes, and during installation other big files will download, so download and install when you have a good internet connection.

- The downloaded file is executable. Begin execution. (Note: mdk533.exe is the current version. The following slides were made using mdk524.exe and so there could be some differences)
- 3) A welcome window will display. Click ok.



4) The main install window will look something like this. The installer will look for updates. While doing the install for these figures it failed to connect to a third party web site and hence the note (in red) that it could not download one or more files. This will not likely involve software packages that we are concerned with, so you should be able to ignore an error at this point.

- <u> </u>	Pack Installer - C:	\Keil_v5\ARM\PACK		- 🗆 🗙		
File Packs Window Help						
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d Devices Boards	4	Image: A packs         Examples		4		
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E All Devices	5144 Devices	Generic	23 Packs			
ABOV Semiconduct	12 Devices	ARM::AMP	🔅 Install	Software components for inter processor comr		
+ 🖌 Active-Semi	4 Devices	ARM::CMSIS	🚸 Update	CMSIS (Cortex Microcontroller Software Interfa		
+ 🔶 Ambig Micro	6 Devices	ARM::CMSIS-Driver	Install+	CMSIS Drivers for external devices		
+ 🔶 Amiccom	2 Devices		. 📀 Install	CMSIS-Driver Validation		
+ 🔶 Analog Devices	12 Devices	ARM::CMSIS-FreeRTOS	🔅 Install+	Bundle of FreeRTOS for Cortex-M and Cortex-A		
+ 🖌 ARM	45 Devices		🚸 Install	CMSIS-RTOS Validation		
+ · · · Cypress	425 Devices		🚸 Install	ARM mbed Client for Cortex-M devices		
+ 🧳 GigaDevice	99 Devices		🚸 Install	ARM mbed Cryptographic and SSL/TLS library		
HDSC	30 Devices		🚸 Install	mbed OS Scheduler for Cortex-M devices		
+ 🖌 Holtek	123 Devices	Huawei::LiteOS	🚸 Install	Huawei LiteOS kernel Software Pack		
+ 🖌 Infineon	166 Devices		🚸 Update	Keil ARM Compiler extensions for ARM Compil		
+ 🖌 Lapis Semiconductor	2 Devices		🚸 Install	Jansson is a C library for encoding, decoding a		
H 🖉 Maxim	4 Devices	Keil::MDK-Middleware	🚸 Update	Middleware for Keil MDK-Professional and MD		
🛨 🏈 MediaTek	2 Devices		🚸 Install	IwIP is a light-weight implementation of the T(		
🕀 🔗 Microchip	341 Devices 🗸					
Output				<b>д</b> х		
Check for updates error: Cannot do	wnload one or more files			^		
Refresh Pack descriptions						
Update available for ARM::CMSIS (installed: 5.0.1, available: 5.2.0) Update available for ARM::CMSIS (installed: 5.0.1, available: 1.3.3)						
Update available for Keil::MDK-Mide	date available for Keii::MDK-Middleware (installed: 7.4.1, available: 7.5.0)					
Completed requested actions				ONLINE		

Depending on your screen size etc. you can adjust the width of the various columns of information displayed to allow reading it as well as the window itself.

Pack Installer - C:\Keil_v5\ARM\PACK - □ ×							
File Packs Window Help							
<b>Device:</b>							
Devices Boards	Þ	Packs Examples					
Search:	• × 🖻	Pack	Action	Description			
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H- MindMotion	2 Devices	ARM::CMSIS-Driver_Va	🚸 Install	CMSIS-Driver Validation			
+ Vordic Semicondu	13 Devices		Install+	Bundle of FreeRTOS for Cortex-M and Cortex-A			
+ 🔗 Nuvoton	487 Devices	ARM::CMSIS-RTOS_Va	📀 Install	CMSIS-RTOS Validation			
	1219 Devices	ARM::mbedClient	🚸 Install	ARM mbed Client for Cortex-M devices			
+ 🔗 Redpine Signals	2 Devices	ARM::mbedTLS	🚸 Install	ARM mbed Cryptographic and SSL/TLS library for C			
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🛨 🖉 🖉 Silicon Labs	534 Devices	Huawei::LiteOS	🚸 Install	Huawei LiteOS kernel Software Pack			
+ 🔮 SONIX	50 Devices	Keil::ARM_Compiler	🚸 Update 룾	Keil ARM Compiler extensions for ARM Compiler 5 a			
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🛨 🖤 🔗 Toshiba	141 Devices		📀 Install	IwIP is a light-weight implementation of the TCP/IP			
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Refresh Pack descriptions	Refresh Pack descriptions						
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Update available for Keil::MDK-Mide	Jpdate available for Keil::MDK-Middleware (installed: 7.4.1, available: 7.5.0)						
Ready				ONLINE			

5) Under Packs in the right hand part of the screen you should click to select Update of the CMSIS core package, and Update the Keil ARM compiler extensions as noted above. The other items will not be needed for our project and most are not useable with the free version of uVision.

Note at lower left that it states Ready and at lower right ONLINE. When you select items to install or update the word Ready will change to a phrase showing what is loading or is selected to load. To the right near the ONLINE word will be a progress indicator.

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File Packs Window Help							
Devices Boards		Packs Examples		<u>4</u>	,		
Search:	• × 🖻	Pack	Action	Description			
Device /	Summary	Device Specific	0 Packs	No device selected	]		
🗄 🔗 Maxim	4 Devices	Generic	23 Packs				
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🕀 🔗 Microchip	341 Devices	ARM::CMSIS	🚸 Update	CMSIS (Cortex Microcontroller Software Interface Sta			
🛨 🔷 Microsemi	6 Devices	ARM::CMSIS-Driver	🔅 Install+	CMSIS Drivers for external devices			
+ 🔷 MindMotion	2 Devices	ARM::CMSIS-Driver_Va	🔅 Install	CMSIS-Driver Validation			
+ 🔷 Nordic Semicondu	13 Devices	ARM::CMSIS-FreeRTOS	🚸 Install+	Bundle of FreeRTOS for Cortex-M and Cortex-A			
+ 🔷 Nuvoton	487 Devices	ARM::CMSIS-RTOS_Va	🚸 Install	CMSIS-RTOS Validation			
→ 🕂 🔗 NXP	1219 Devices	ARM::mbedClient	🚸 Install	ARM mbed Client for Cortex-M devices			
+ 🔗 Redpine Signals	2 Devices	ARM::mbedTLS	🚸 Install	ARM mbed Cryptographic and SSL/TLS library for C	71		
+ 🔗 Renesas	4 Devices	ARM::minar	🚸 Install	mbed OS Scheduler for Cortex-M devices			
🛨 🔗 Silicon Labs	534 Devices	+ Huawei::LiteOS	🚸 Install	Huawei LiteOS kernel Software Pack			
+ 🖉 SONiX	50 Devices		🚸 Update	Keil ARM Compiler extensions for ARM Compiler 5 a			
+ • STMicroelectronics	1056 Devices	Keil::Jansson	🐼 Install	Jansson is a C library for encoding, decoding and mi			
+ 🖉 Texas Instruments	350 Devices	• Keil::MDK-Middleware	🚸 Update	Middleware for Keil MDK-Professional and MDK-Plu			
+ 🗸 Toshiba	141 Devices	IwIP::IwIP	🚸 Install	IwIP is a light-weight implementation of the TCP/IP			
	7 Devices 💌	•			_		
Output				<b>4</b> :	×		
Check for updates error: Cannot do	wnload one or mor	e files			~		
Refresh Pack descriptions							
Update available for ARM::CMSIS (installed: 5.0.1, available: 5.2.0)							
Update available for Keil::MDK-Middleware (installed: 7.4.1, available: 7.5.0)							
Action (2 left): Install "ARM.CMSIS.5.2.0", download http://www.keil.com/pack/ARM.CMSIS.5.2.0.pack 93% ONLINE							

After selecting items to update/install here is an example screen shot:

Note the progress information at the bottom.

6) After the selected items have downloaded, expand the NXP selection shown under the Devices tab in the left hand part of the window.

Pack Installer - C:\Keil\_v5\ARM\PACK File Packs Window Help 9 Device: 4 D Devices Boards 4 Packs Examples D • X 🗖 Search: Pack Action Description Device Specific 0 Packs No device selected ٠ Device Summary Generic 23 Packs + 🖌 Nuvoton 487 Devices 🔺 + ARM::AMP 🔅 Install Software components for inter processor communic 🗄 --- 🖗 NXP 1219 Devices ARM::CMSIS 💠 Up to date CMSIS (Cortex Microcontroller Software Interface Sta + 🍕 i.MX 6 Series 14 Devices CMSIS Drivers for external devices ARM::CMSIS-Driver 🚸 Install 🗄 🌱 i.MX 7 Series 8 Devices + ARM::CMSIS-Driver\_Va... CMSIS-Driver Validation 🔅 Install + 🍕 i.MX RT Series 2 Devices Bundle of FreeRTOS for Cortex-M and Cortex-A ARM::CMSIS-FreeRTOS 🚸 Install 🕂 🔧 K Series 1 Device + ARM::CMSIS-RTOS\_Va... CMSIS-RTOS Validation Install 🗄 🍕 K00 Series 2 Devices + ARM::mbedClient 😔 Install ARM mbed Client for Cortex-M devices + 🔧 K10 Series 23 Devices + ARM::mbedTLS 😔 Install ARM mbed Cryptographic and SSL/TLS library for Co 🗄 🍕 K20 Series 43 Devices 😔 Install + ARM::minar mbed OS Scheduler for Cortex-M devices + 🔧 K30 Series 6 Devices Huawei LiteOS kernel Software Pack + Huawei::LiteOS 🚸 Install 🗄 🍕 K32W Series 3 Devices + Keil::ARM\_Compiler 🚸 Up to date Keil ARM Compiler extensions for ARM Compiler 5 a + K40 Series 6 Devices Jansson is a C library for encoding, decoding and ma + Keil::Jansson 🔅 Install 🛨 쓚 K50 Series 12 Devices • Keil::MDK-Middleware 🚸 Update Middleware for Keil MDK-Professional and MDK-Plu-🛨 🍕 K60 Series 18 Devices + IwIP::IwIP 😔 Install IwIP is a light-weight implementation of the TCP/IP 🗄 🔧 K70 Series 4 Devices Micrium::RTOS Micrium software components 🔅 Install 🛨 🔧 K80 Series 2 Devices Oryx-Embedded::Midd... Middleware Package (CycloneTCP, CycloneSSL and 🔅 Install + 🔧 KEAxx Series 6 Devices RealTimeLogic::SharkS... 😔 Install SharkSSL-Lite is a super small and super fast pre-cor 🗄 🔧 KExx Series 21 Devices 😔 Install Simple Message Queues (SMQ) is an easy to use IoT 🗄 🔧 KLxx Series 55 Devices e .. 101 1 110/0010/0 🗄 쓚 KMxx Series 14 Devices 4 Output ąх Update available for ARM::CMSIS (installed: 5.0.1, available: 5.2.0) ~ Update available for Keil::ARM\_Compiler (installed: 1.3.1, available: 1.3.3) Update available for Keil::MDK-Middleware (installed: 7.4.1, available: 7.5.0) Refresh Pack descriptions Update available for Keil::MDK-Middleware (installed: 7.4.1, available: 7.5.0) ONLINE Ready

The expanded view might look like this:

Click to expand the KLxx Series selection.

		Pack Installer - C:\Keil_v5\	ARM\PACK	×	
File Packs Window Help					
Device: NXP - MKL25Z128xxx4					
1 Devices Boards	Þ	Image: Packs         Examples		4	
Search: • X		Pack	Action	Description	
Device /	Summary	∎ Device Specific	1 Pack	MKL25Z128xxx4 selected	
🕀 🏤 KExx Series	21 Devices	Generic	23 Packs		
E 🔧 KLxx Series	55 Devices	ARM::AMP	🔅 Install	Software components for inter processor communica	
🕂 🏤 KL0x	12 Devices	ARM::CMSIS	🚸 Up to date	CMSIS (Cortex Microcontroller Software Interface Star	
± 🥸 KL1x	15 Devices	ARM::CMSIS-Driver	🔅 Install	CMSIS Drivers for external devices	
E KL2x	14 Devices	ARM::CMSIS-Driver_Va	🔅 Install	CMSIS-Driver Validation	
	ARM Cortex		🔅 Install	Bundle of FreeRTOS for Cortex-M and Cortex-A	
	ARM Cortex	ARM::CMSIS-RTOS_Va	🚸 Install	CMSIS-RTOS Validation	
	ARM Cortex		🔅 Install	ARM mbed Client for Cortex-M devices	
MKL25Z64xxx4 (D.,	ARM Cortex	ARM::mbedTLS	🚸 Install	ARM mbed Cryptographic and SSL/TLS library for Cor	
MKL25Z128xxx4 (	ARM Cortex	ARM::minar	🔅 Install	mbed OS Scheduler for Cortex-M devices	
MKL26Z32xxx4 (D.,	ARM Cortex	+Huawei::LiteOS	🚸 Install	Huawei LiteOS kernel Software Pack	
MKI 26764xxx4 (D.	ARM Cortex		🚸 Up to date	Keil ARM Compiler extensions for ARM Compiler 5 an	
MKI 267128xxx4 (	ARM Cortex	Keil::Jansson	🚸 Install	Jansson is a C library for encoding, decoding and mar	
MKL267256xx4 (	ARM Cortex		🚸 Update	Middleware for Keil MDK-Professional and MDK-Plus	
MKL27732vvv4 (D	ARM Cortex	lwIP::IwIP	🚸 Install	IwIP is a light-weight implementation of the TCP/IP p	
MKL27764vor4 (D	ARM Cortex		🚸 Install	Micrium software components	
MKL277128vvv4 (	ARM Cortex	Oryx-Embedded::Midd	🚸 Install	Middleware Package (CycloneTCP, CycloneSSL and C	
MKL277256vvv4 (	ARM Cortex	■ RealTimeLogic::SharkS	🚸 Install	SharkSSL-Lite is a super small and super fast pre-com	
MKL287512vv7 (	ARM Cortex		🚸 Install	Simple Message Queues (SMQ) is an easy to use IoT p	
	8 Devices		<b>A</b>		
	o benees				
Output				ф Х	
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Update available for Keil::MDK-Middleware (installed: 7.4.1, available: 7.5.0)					
Refresh Pack descriptions					
Update available for Keil::MDK-Middleware (	installed: 7.4.1, avail	able: 7.5.0)		×	
Ready				ONLINE	

Our interest is the MKL25Z128xxx4. Click on it in under the Devices tab.

And then under the Packs tab click on the + box left of Device Specific.

<b>@</b>		Pack Installer - C:\Keil_v5\A	RM\PACK	_ 🗆 🗙	
File Packs Window Help	File Packs Window Help				
Device: NXP - MKL25Z128xxx4					
1 Devices Boards	Þ	1 Packs Examples		<u> </u>	Þ
Search: - X	Ē	Pack	Action	Description	
Device /	Summary	🖃 Device Specific	1 Pack	MKL25Z128xxx4 selected	-
Ext KExx Series	21 Devices	Keil::Kinetis_KLxx_DFP	🚸 Deprecated	NXP Kinetis KLxx Series Device Support and Examples	
F A KLxx Series	55 Devices	1.14.0 (2017-11-20)	🚸 Install 룾	NXP Kinetis KLxx Series Device Support and Examples	
H SKL0x	12 Devices	Previous		Keil::Kinetis_KLxx_DFP - Previous Pack Versions	
H KL1x	15 Devices	Generic	23 Packs		
E KL2x	14 Devices	ARM::AMP	🚸 Install	Software components for inter processor communic	
	ARM Cortex	+ ARM::CMSIS	🚸 Up to date	CMSIS (Cortex Microcontroller Software Interface Sta	
MKL24Z64xxx4 (D.,	ARM Cortex	+ ARM::CMSIS-Driver	🚸 Install	CMSIS Drivers for external devices	
MKL25Z32xxx4 (D.,	ARM Cortex	+ ARM::CMSIS-Driver_Va	🚸 Install	CMSIS-Driver Validation	
MKL25Z64xxx4 (D.,	ARM Cortex	+ ARM::CMSIS-FreeRTOS	🚸 Install	Bundle of FreeRTOS for Cortex-M and Cortex-A	
	ARM Cortex	+ ARM::CMSIS-RTOS_Va	🚸 Install	CMSIS-RTOS Validation	
MKL26Z32xxx4 (D.,	ARM Cortex	ARM::mbedClient	🚸 Install	ARM mbed Client for Cortex-M devices	
MKL26Z64xxx4 (D.,	ARM Cortex		🚸 Install	ARM mbed Cryptographic and SSL/TLS library for Cc	
MKL26Z128xxx4 (	ARM Cortex	+ ARM::minar	🚸 Install	mbed OS Scheduler for Cortex-M devices	
MKL26Z256xxx4 (	ARM Cortex	+ Huawei::LiteOS	🔅 Install	Huawei LiteOS kernel Software Pack	
MKL27Z32xxx4 (D.	ARM Cortex	Keil::ARM_Compiler	🚸 Up to date	Keil ARM Compiler extensions for ARM Compiler 5 a	
MKL27764xxx4 (D.	ARM Cortex-	+ Keil::Jansson	🔅 Install	Jansson is a C library for encoding, decoding and ma	
MKL277128xxx4 (	ARM Cortex-		🚸 Update	Middleware for Keil MDK-Professional and MDK-Plu:	
MKL277256xxx4 (	ARM Cortex-	+lwIP::lwIP	🔅 Install	IwIP is a light-weight implementation of the TCP/IP	
MKL287512007 (	ARM Cortex-	Micrium::RTOS	🚸 Install	Micrium software components	
	8 Devices		🚸 Install	Middleware Package (CycloneTCP, CycloneSSL and	
H KLAX	5 Devices		🔅 Install	SharkSSL-Lite is a super small and super fast pre-con	
₩ . KLAX	1 Device		Install	Simple Message Queues (SMQ) is an easy to use IoT	
E KMy Series	14 Devices	+ redlogix::redBlocks-Si	🚸 Install	C Target Library for the redBlocks WYSIWYG SiL Simu	
E KSvy Series	4 Devices	+ rt-thread::rtthread	🚸 Install	rt-thread software components	
E KVvy Series	23 Devices	wolfSSL::wolfSSL	🚸 Install	Light weight SSL/TLS and Crypt Library for Embedde	
E KWw Series	18 Devices	YOGITECH::fRSTL_AR	Deprecated	!!! DEPRECATED Product !!! YOGITECH fRSTL Functio	
	29 Devices		Deprecated	!!! DEPRECATED Product !!! YOGITECH fRSTL Functio	
E Coord Series	128 Devices	4			비
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Output				д	×
Update available for ARM::CMSIS (installed: 1	5.0.1, available: 5.2.0) talled: 1.3.1 available	e 1 3 3)			^
Update available for Keil::MDK-Middleware (	installed: 7.4.1, available	ble: 7.5.0)			
Refresh Pack descriptions					
Update available for Keil::MDK-Middleware (	nstalled: 7.4.1, availa	ble: 7.5.0)		-	Y
Ready				ONLINE	11

## 7) Click Install for NXP Kinetis KLxx Series Device Support and Examples:

The CMSIS and ARM Compiler packs have green diamonds by them because they are up to date. There is still the option of installing other packs but those should not be required for the ENGR-355 project.

After the Device Support and Examples pack is loaded the display will change as shown on the next page.

Note that a Remove option now is displayed for the Device Support and Examples package. That is normal and ok.

(				
<b>@</b>		Pack Installer - C:\Keil_v5\A	RM\PACK	- 🗆 ×
File Packs Window Help				
Device: NXP - MKL25Z128xxx4				
Devices Boards		4 Packs Examples		4
Search: • ×	E	Pack	Action	Description
Device /	Summary	Device Specific	1 Pack	MKL25Z128xxx4 selected
🕀 🧘 KExx Series	21 Devices	En Keil::Kinetis_KLxx_DFP	🚸 Deprecated	NXP Kinetis KLxx Series Device Support and Examples
E KLxx Series	55 Devices	1.14.0 (2017-11-20)	💥 Remove	NXP Kinetis KLxx Series Device Support and Examples
🗄 🔧 KL0x	12 Devices	Previous		Keil::Kinetis_KLxx_DFP - Previous Pack Versions
⊕ 🤧 KL1x	15 Devices	Generic	23 Packs	
⊨ 🤧 KL2x	14 Devices	ARM::AMP	🔅 Install	Software components for inter processor communic
	ARM Cortex	ARM::CMSIS	🚸 Up to date	CMSIS (Cortex Microcontroller Software Interface Sta
MKL24Z64xxx4 (D.,	ARM Cortex	ARM::CMSIS-Driver	🚸 Up to date	CMSIS Drivers for external devices
	ARM Cortex	ARM::CMSIS-Driver_Va	🚸 Install	CMSIS-Driver Validation
	ARM Cortex	ARM::CMSIS-FreeRTOS	🚸 Install	Bundle of FreeRTOS for Cortex-M and Cortex-A
	ARM Cortex		🚸 Install	CMSIS-RTOS Validation
MKI 26732xxx4 (D.	ARM Cortex	ARM::mbedClient	🔅 Install	ARM mbed Client for Cortex-M devices
MKI 26764xxx4 (D.	ARM Cortex	+ ARM::mbedTLS	🔅 Install	ARM mbed Cryptographic and SSL/TLS library for Co
MKI 267128vor4 (	ARM Cortex-		🚸 Install	mbed OS Scheduler for Cortex-M devices
MKI 267256xxx4 (	ARM Cortex-	+ Huawei::LiteOS	🚸 Install	Huawei LiteOS kernel Software Pack
MKL27732vvv4 (D	ARM Cortex-		🚸 Up to date	Keil ARM Compiler extensions for ARM Compiler 5 a
MKL27764vor4 (D	ARM Cortex-	+ Keil::Jansson	Install	Jansson is a C library for encoding, decoding and ma
MKL277128vvv4 (	ARM Cortex-	Keil::MDK-Middleware	🚸 Update	Middleware for Keil MDK-Professional and MDK-Plus
MKL277256vor4 (	ARM Cortex-		Install	IwIP is a light-weight implementation of the TCP/IP
MKL2975120077 (	ARM Cortex-	Micrium::RTOS	Install	Micrium software components
	2 Devices	+ Oryx-Embedded::Midd	Install	Middleware Package (CycloneTCP, CycloneSSL and
	5 Devices		Install	SharkSSL-Lite is a super small and super fast pre-con
	1 Devices	+ RealTimeLogic::SMQ	Install	Simple Message Queues (SMQ) is an easy to use IoT
	14 Device	+ redlogix::redBlocks-Si	Install	C Target Library for the redBlocks WYSIWYG SiL Simu
	4 Devices	+ rt-thread::rtthread	Install	rt-thread software components
	22 Devices	+wolfSSL::wolfSSL	Install	Light weight SSL/TLS and Crypt Library for Embedde
When Series	19 Devices		Deprecated	III DEPRECATED Product III YOGITECH fRSTL Functio
	20 Devices	+ YOGITECH::fRSTL ST	Deprecated	III DEPRECATED Product III YOGITECH fRSTL Functio
	139 Devices			↓
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Output				д х
Update available for Keil::MDK-Middleware (	installed: 7.4.1, availa	ble: 7.5.0)		^
Update available for Keil::MDK-Middleware (	installed: 7.4.1 availa	ble: 7.5.0)		
Refresh Pack descriptions				
Update available for Keil::MDK-Middleware (	installed: 7.4.1, availa	ble: 7.5.0)		×
Ready				ONLINE

That completes the installation of software and libraries that are needed. Close the installer.

The next step is to create a project and work on a design. See a companion document for info regarding project creation.