



School of Information Technology

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| Course | : | Diploma in Infocomm & Security (ITDF12) |
| Module | : | Sensor Technologies and Project (ITP272) |

Raspberry Pi Practical : Environment Setup

Objectives:

- Prepare development environment for Raspberry Pi using Windows IOT Core

ITP272 Sensor Technologies and Project

You do not need to do this setup in the school Lab as our Lab should have already been configured for development. This information here is useful for you to setup the environment on your personal computer.

The following are the things required before you can start development

- Visual studio 2015 installed
- Update 3 installed
- Universal Windows App Development Tools installed
- Use Developer mode
- Windows IoT Core Project Templates installed

Visual Studio 2015

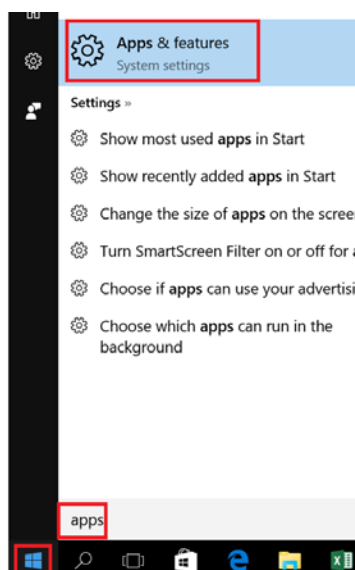
All student should have already have access to download VS2015. Please approach helpdesk or your friends for details on how to gain access to the download.

Update 3

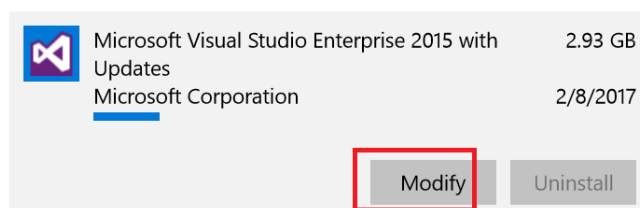
Ensure that Visual Studio 2015 is not opened. Close the app if it is opened.

Then click on the Windows button and type “apps”.

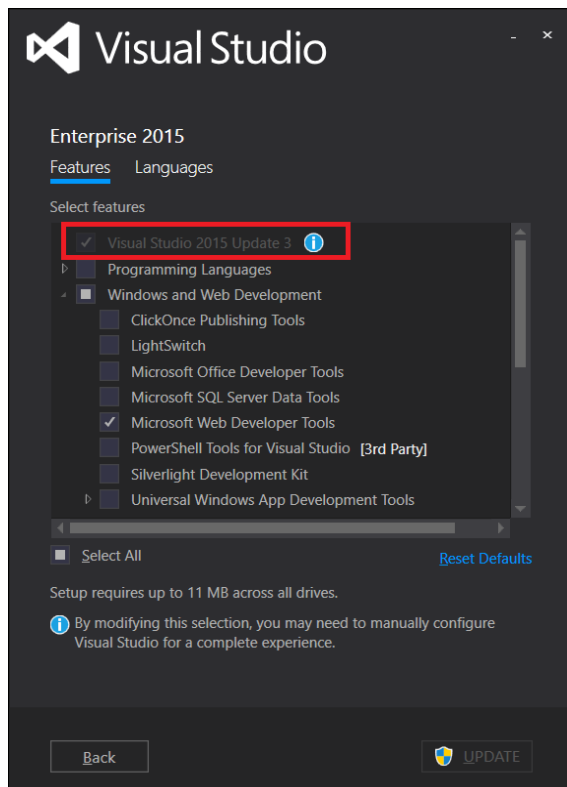
Select “**Apps and features**” as it appears.



Look for “**Microsoft Visual Studio 2015**” and click on “**Modify**”

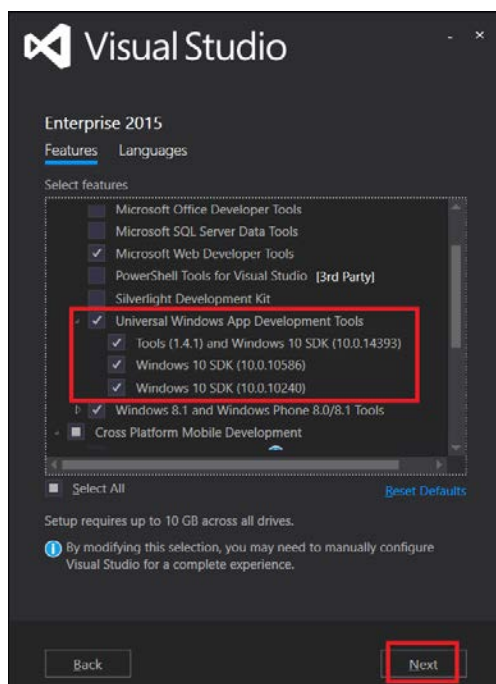


Verify that you already have Update 3. If you have not installed update 3, please install it. You'll need internet connection to download.



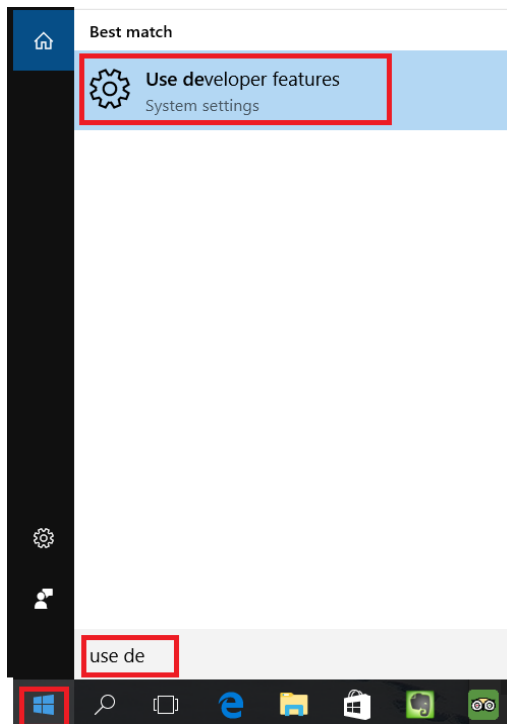
Universal Windows App Development Tools

Ensure that you have the following Universal Windows App Development Tools installed. If you have not installed it, proceed to install. You'll need internet connection to download.

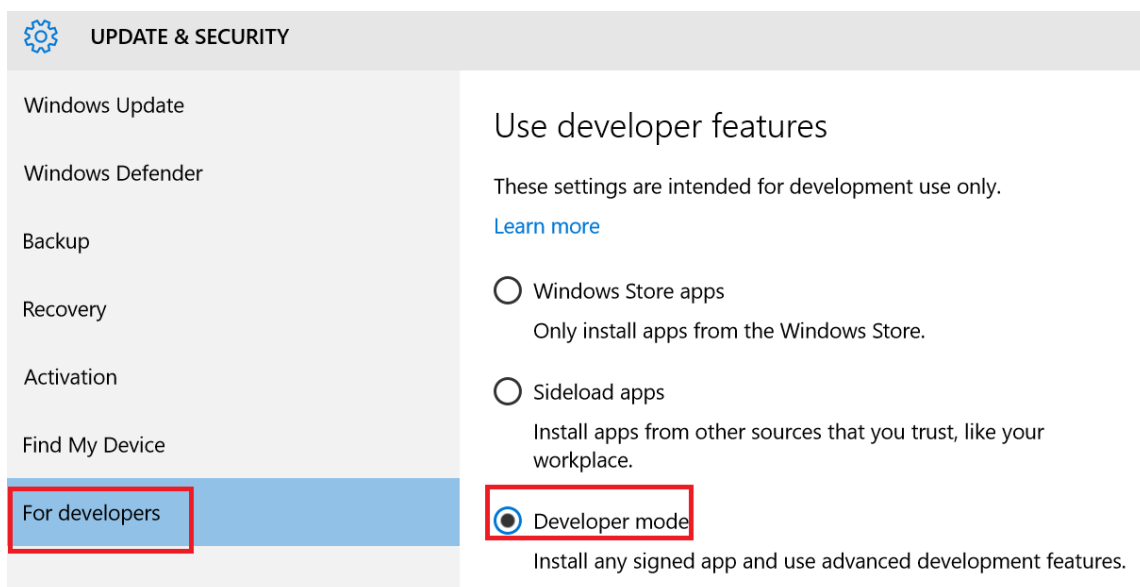


Developer Mode

Click on the Windows button and type “**use de**”.
Select “**Use developer features**” as it appears.

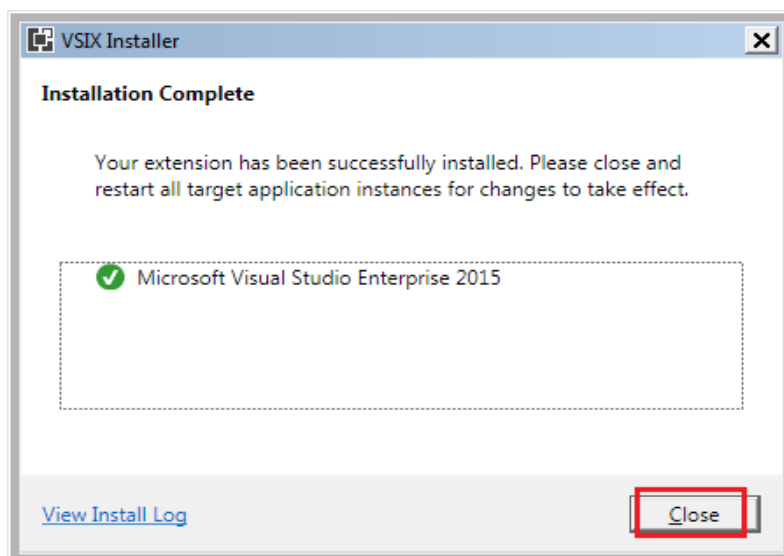
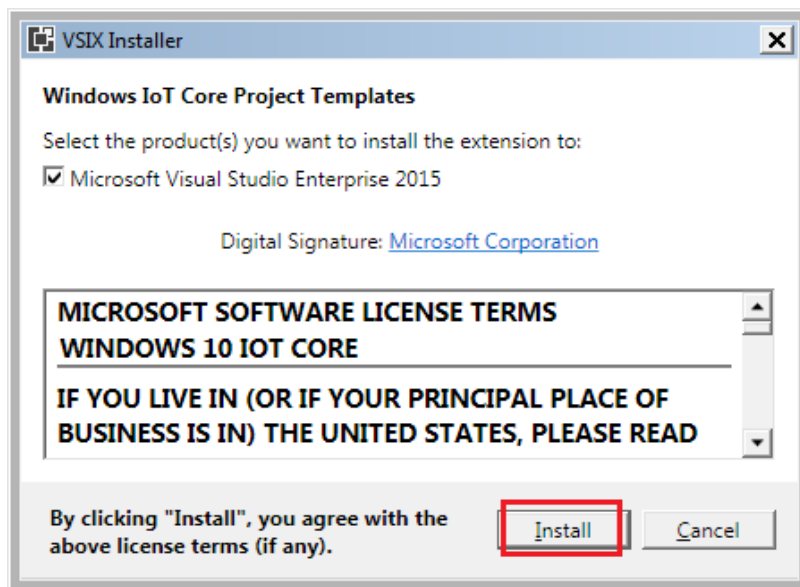
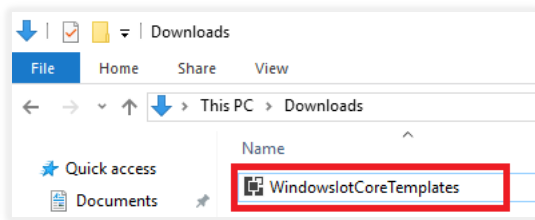


Choose “**For developers**” and select “**Developer mode**”.



Windows IoT Core Project Templates

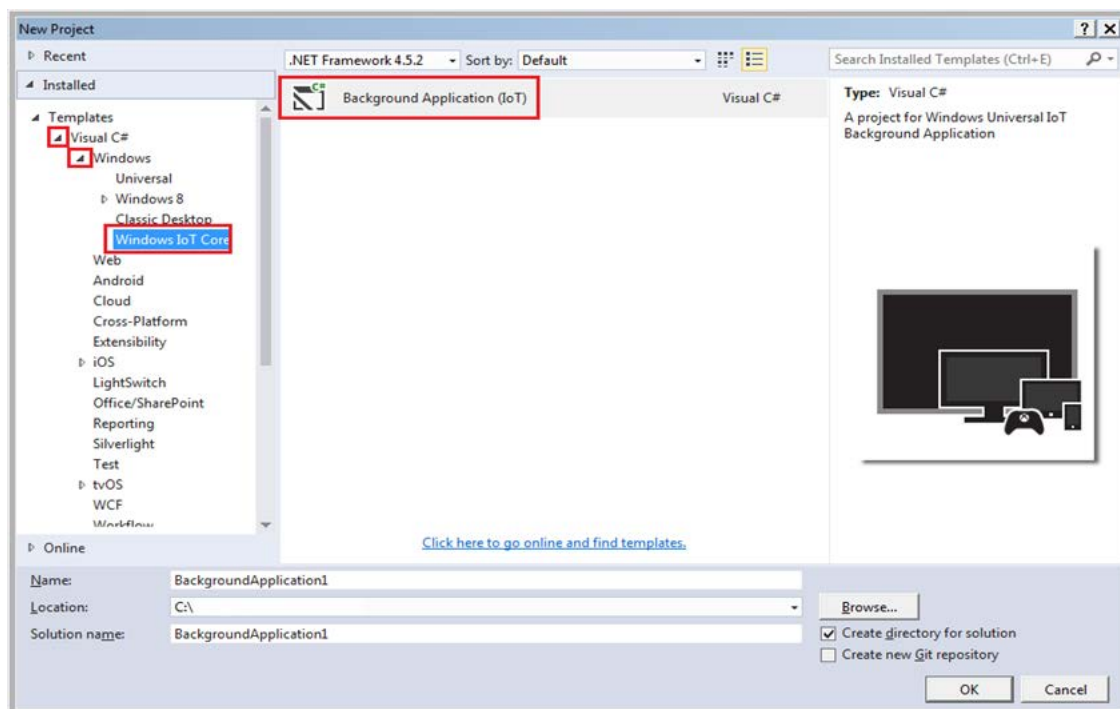
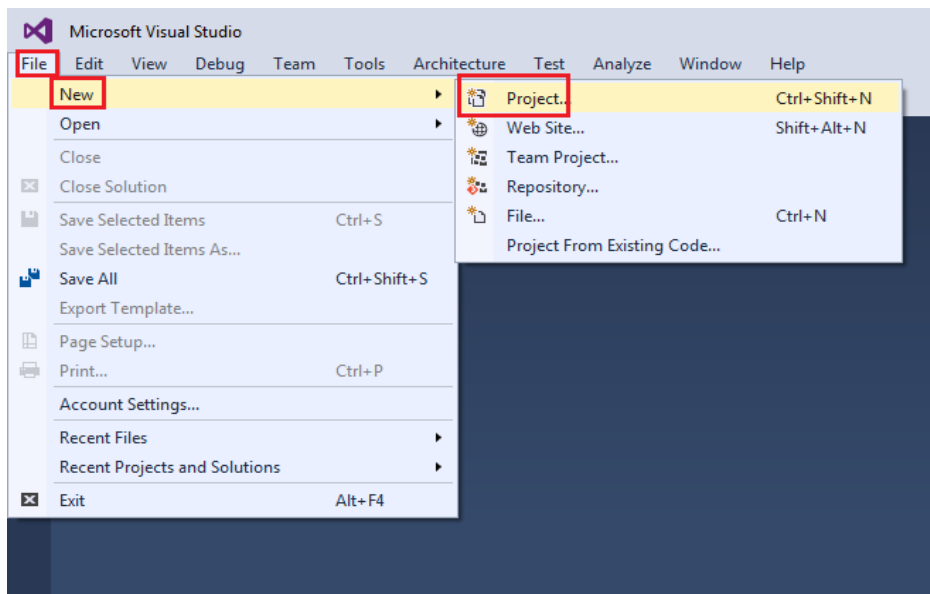
Download “**WindowsIoTCoreTemplates.vsix**” from Blackboard and run the installer.



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Verification

Once you've setup the environment successfully, you can verify that you should now have the option create a **"WindowsIoTCore - Background Application (IoT)"** as follows.



==End of Practical==