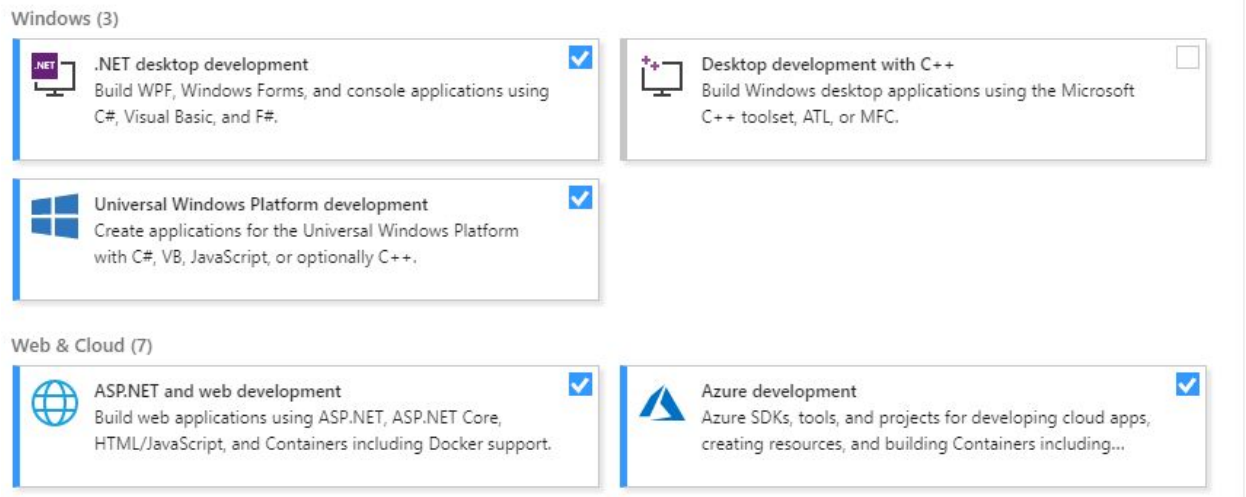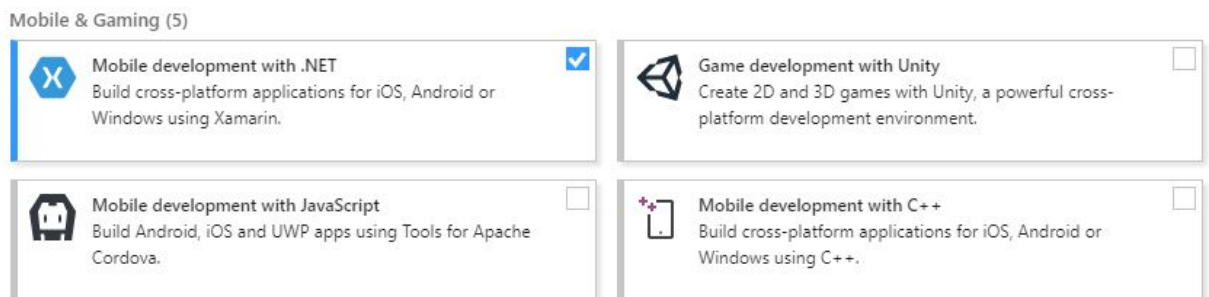# Installing the various software on Windows:-

- **Visual Studio:-**
1. Install latest version of visual studio from website https://visualstudio.microsoft.com/downloads/?utm_medium=microsoft&utm_source=docs.microsoft.com&utm_campaign=button+cta&utm_content=download+vs2017 . Make sure your system requirements and then install community version.

2. Once the installer in installed it will ask for the different frameworks that one can install with visual studio. For our project following frameworks are necessary.

Windows (3)

.NET desktop development
Build WPF, Windows Forms, and console applications using C#, Visual Basic, and F#.

Desktop development with C++
Build Windows desktop applications using the Microsoft C++ toolset, ATL, or MFC.

Universal Windows Platform development
Create applications for the Universal Windows Platform with C#, VB, JavaScript, or optionally C++.

Web & Cloud (7)

ASP.NET and web development
Build web applications using ASP.NET, ASP.NET Core, HTML/JavaScript, and Containers including Docker support.

Azure development
Azure SDKs, tools, and projects for developing cloud apps, creating resources, and building Containers including...

From Mobile & Gaming select mobile development with .NET

Mobile & Gaming (5)

Mobile development with .NET
Build cross-platform applications for iOS, Android or Windows using Xamarin.

Game development with Unity
Create 2D and 3D games with Unity, a powerful cross-platform development environment.

Mobile development with JavaScript
Build Android, iOS and UWP apps using Tools for Apache Cordova.

Mobile development with C++
Build cross-platform applications for iOS, Android or Windows using C++.
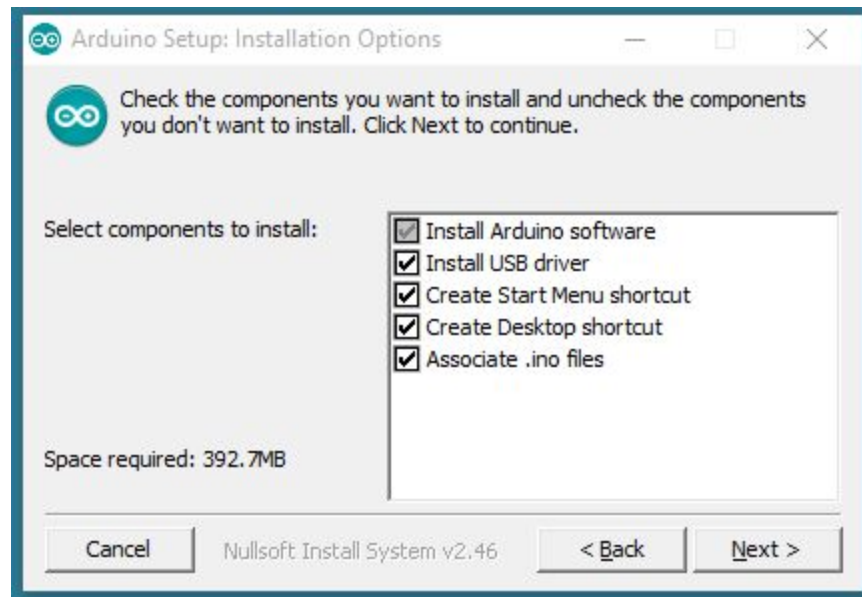
Install these all components.
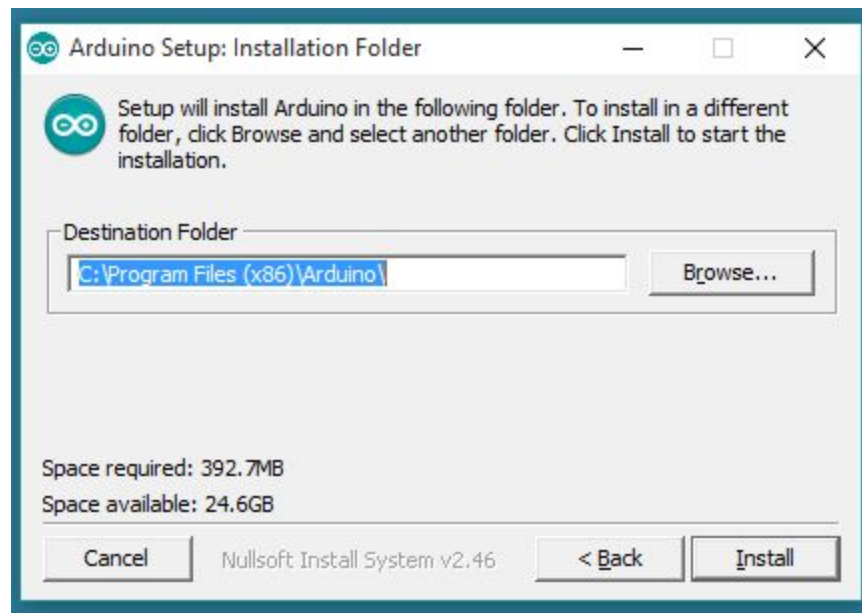Once the visual studio is installed the project can be installed.

- **Arduino IDE**
    1. Download the Arduino Software (IDE)

        Get the latest version from the https://www.arduino.cc/en/Main/Software. You can choose between the Installer (.exe) and the Zip packages.
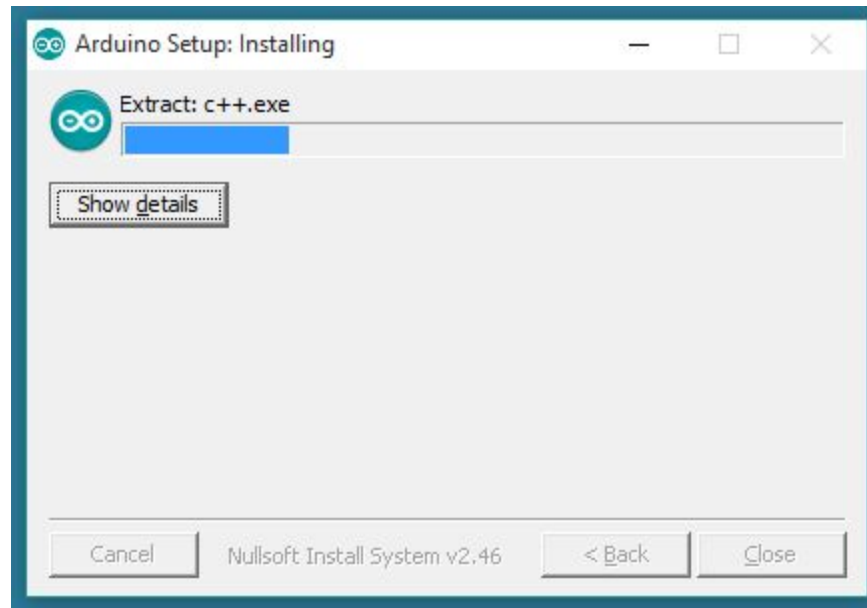
2. When the download finishes, proceed with the installation and please allow the driver installation process when you get a warning from the operating system. Choose the components to be installed.

3. Choose the installation directory (we suggest to keep the default one)

4. The process will extract and install all the required files to execute properly the Arduino Software (IDE)

Once the installation is finished just hit the finish button.

- **To install raspbian on the SD card refer this video**
  https://www.youtube.com/watch?v=B5wkXu6tmb4 .

- **VNC server**
    1. DOWNLOAD INSTALLATION PACKAGE

       One can download latest version of putty from the site
       https://www.realvnc.com/en/connect/download/vnc/windows/ .The only need is to
       select the appropriate version of the installer compatible with the computer and
       operating system.

    2. CONFIGURING AND INSTALLING

       Double-click the executable to start the graphical Install Wizard, and follow
       the instructions.

- **Putty:-**
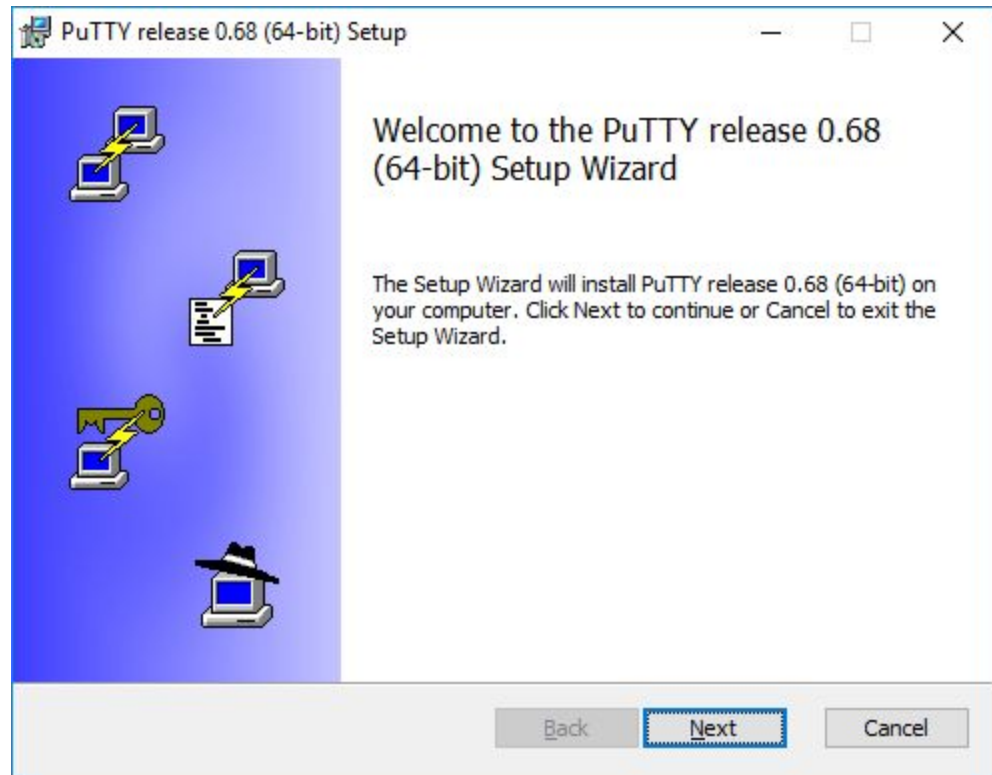   1. DOWNLOAD INSTALLATION PACKAGE

       One can download latest version of putty from the site
       https://www.ssh.com/ssh/putty/download .The only need is to select the
       appropriate version of the installer compatible with the computer and operating
       system.
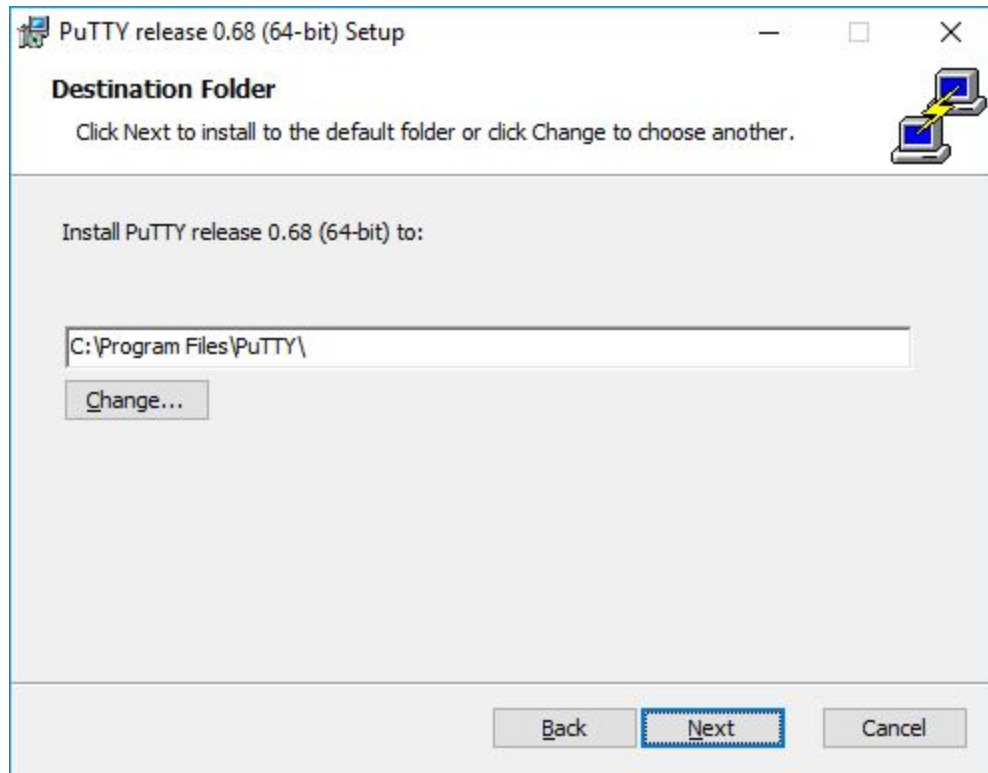
2. STARTING THE INSTALLER

   Once the download is finished, just click on the installer and start the installation.
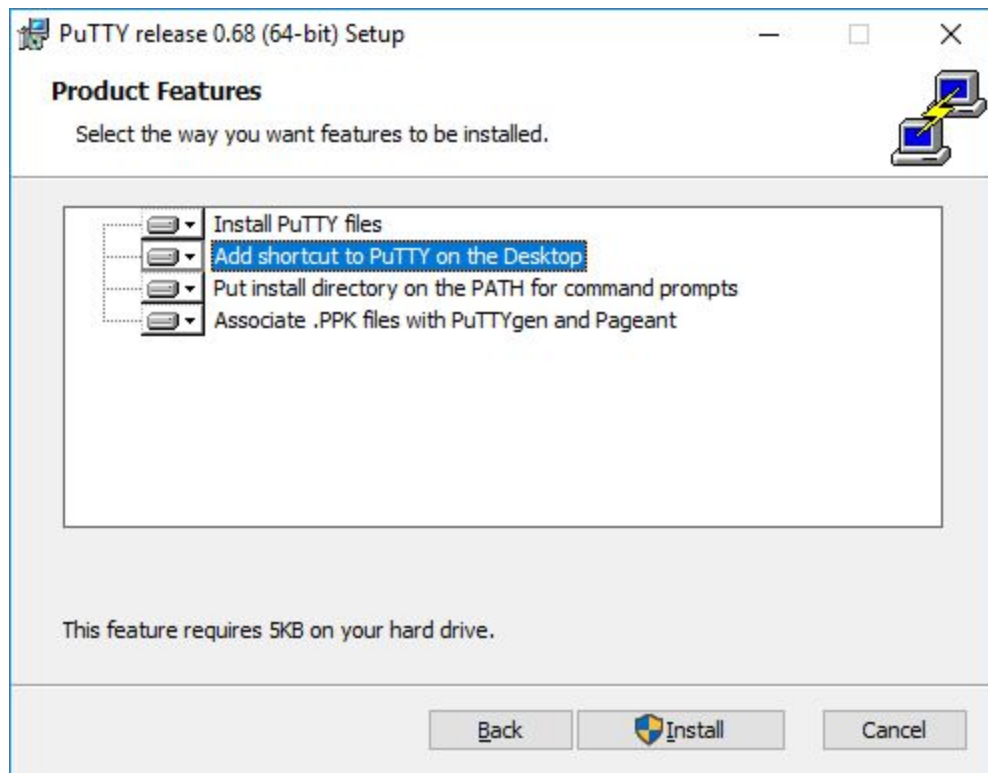

3. CONFIGURING AND INSTALLING

Just hit next to start the installation.

The installer then asks for the Destination folder in which to install the software.
Almost always it is best to use the default value. Just click Next.

Then, the installer asks to select product features to install. You probably want to add a shortcut on the desktop if you expect to use the software frequently. All the other options generally should be enabled. When ready, click Install.

When the installation has completed successfully, it should show a Completed screen. Click Finish to exit the installer.