**Radar setup:**

* **For Development purposes:**

1. Go to <https://www.anaconda.com/download/?lang=en-us> and click on python 2.7 to download Anaconda
2. Install the Anaconda software by opening the downloaded file.
3. To verify the installation, open MS Command Prompt and type Conda.
4. Then, in the command prompt, type
   1. conda install pyserial
5. Open Anaconda from command prompt and launch spyder.
6. Open device manager and note down the port number of usbserial device and change the port number in line 14.
7. Navigate to current folder through command prompt and type python rad.py
8. You can see the distance as output in the command prompt

* **For Production:**

1. Install Python 2.7 from [this link](https://www.python.org/downloads/)
2. Once python is downloaded and installed, install pyserial, scipy, numpy, pandas libraries from pip using the following commands:

* pip install pyserial
* pip install scipy
* pip install numpy
* pip install pandas

1. Open device manager and note down the port number of usbserial device and change the port number in line 14.
2. Navigate to current folder through command prompt and type python rad.py
3. You can see the distance as output in the command prompt

**ICM setup:**

1. Click **on Download software** button under **IAR Embedded Workbench for Arm** in <https://www.iar.com/iar-embedded-workbench/#!?currentTab=free-trials> .
2. Open Downloaded file and click on **Install IAR Embedded Workbench for Arm** to start the installation
3. Click next to choose location of installation. Then make sure STM is checked in the next page where you’re asked to select drivers to install.
4. Go to <https://my.st.com/content/my_st_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-programmers/stsw-link004.html> to download **STM32 ST-LINK utility**
5. Extract the above downloaded file and open STM32 ST-LINK Utility v4.2.0 setup.exe to install ST-Link.
6. Go to <https://my.st.com/content/my_st_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-utilities/stsw-link009.license=1516897746146.html> to download **USB Drivers for STM32.**
7. Extract the above downloaded file and open dpinst\_amd64.exe to download USB drivers.
8. Go to <https://my.st.com/content/my_st_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-programmers/stsw-link007.license=1516898737185.html> to download **ST-LINK Firmware Upgrade.**  This step is not a compulsion as the firmware we have is updated to the latest version. In future if there are any firmware upgrades by STM, we have to download and install the file from the above link.