The method of installing ROS:

* First: in order to install ROS, we need to download ubuntu system on our device, and to do that we must download an application that allows us to operate other systems on the same device. For me I used virtual box for windows.
* Second: Downloading ubuntu. I downloaded ubuntu 20.04 from the official website, then I entered virtual box and clicked on new and chose the ubuntu file and set up the needed settings.

Some settings that need to be set:

1. Memory that ubuntu can take from the device’s disk.
2. Hard disk file type (which I chose to be VDI).
3. File location.

* Third: connecting the disk file to VB. After finishing the earlier settings, we need to go to set the virtual disk of ubuntu and connect it with the system, and this would be done as follows:

1. Select ubuntu 20.04 from the left bar.
2. Go to settings.
3. Click on storage.
4. Select the empty disk and chose the virtual disk from ubuntu file.

Now everything is set to start installing ubuntu.

* Fourth: Just like any new computer you buy, you need to set up the operating system, and in our case, we have ubuntu. By clicking on start, the system starts to ask for many things and settings that we may choose. After we finish these setting ubuntu will be ready to use.
* Fifth: Installing ROS: we go to the official website of ROS which is ros.org and look for the latest update for ROS on ubuntu, then choose it and start the procedures.

Now we need to write some codes in the terminal.

The coding that is needed to be done (all codes are taken from ros.org website):

Text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Now everything is set, and ROS is ready to be used!