Step 1: To install TV regularization, first run the "**setup\_file.m”** file from the folder named as **TV\_reg**

Step 2: Run “**Forward\_data\_simulation.m”** to generate physical parameters and configurations for the inverse problem. You can set the size of the imaging region (DOI) and placement of the WiFi transceivers from this code.

Step 3: Run “**xPRA\_Single\_Frame.m”** to solve the inverse problem using xPRA and TV regularization. In this code, you can either use simulation data or Experiment data by changing the variable named “**Data\_type**”. Experiment data is stored in the folder named **Experiment\_data.**