**PROJECT EXECUTION STEPS**

1. Download the necessary IDE. In our case we have downloaded the PyCharm IDE to develop the code for the model building and the integration with StreamLit.
2. Install all the necessary libraries such as “SCAPY”, “CSV”, “STREAMLIT”, “RANDOM”, “SMTPLIB”, “EMAILMESSAGE”, “SSL”, “PANDAS”, “NUMPY”.
3. Download and import the train and test datasets from Kaggle and import them into the project folder in the IDE.
4. Write down the code for the IDS in the new project in the PyCharm IDE.
5. Make appropriate changes so that the code runs as expected. These changes include:
   1. Changing the interface (iface) to the interface the system is using and the number of packets to be captured by changing the count value.

**capture = sniff(iface='Wi-Fi',count = 100)**

* 1. Change the file location and the pcap file name as per requirements.

**wrpcap("GFG3.pcap",capture)**

1. Now in the terminal run the code to start the StreamLit framework that runs on the local host to display the front end components related to our IDS. Our python file is named “streamlit.py” so we run the below command in the terminal as follows:

**streamlit run streamlit.py**

1. This opens the default search engine where the streamlit uses the local host port to display the IDS and provides the results.