1. Open the python file in a python IDE/PyCharm. There is only 1 executable program for the project

2. Save and create a project or can be run stand alone without the need to create a project. You can also open in the existing project.

3. Import NLTK package and install on your system.

4. Run the python file.

Follow the below steps to run through the execution:

On receiving the below message in the console, enter the complete file path to read the input corpus:

**Please enter a location name to find the highest accident causing reasons and their safety measures**

Depending on the Type, enter the input as below:

**Positive Tests**

1. Type 1: Enter the location as **Lewisville.**

Output: {'Wreck Lewisville': 1}

Wreck Lewisville

Drive carefully as there is accident prone road ahead !

1. Type 2: Enter the location as **Frisco.**

Output: {'Crash Frisco': 1}

Crash Frisco

Dangerous road ahead ! Remain alert !

1. Type 3: Enter the location as **Carrollton.**

Output: {' Carrollton': 1, 'Crash Carrollton': 1}

Carrollton

**Negative Tests**

1. Enter location not in corpus- **Paris**

Output: The location will be surveyed and updated soon for accident prediction!!Thank you for your patience!!

The accident at this location does not have sufficient information!!

1. Location present in corpus but the accident information does not have relevant feature set-**Saginaw**

Output: The accident at this location does not have sufficient information!!

1. Not SRL tagged but present in the corpus – **Mineral Wells**

Output: The accident at this location does not have sufficient information!!

1. Syntactically and semantically correct , so can be SRL tagged but when mapped to the feature set, does not return any value-**Benbrook**

Output: {' Benbrook': 1}

Benbrook

1. Type 2 negative test case : Syntactically and semantically correct SRL tagged sentence not having vehicle and temporal but still does not give correct output- **Motor City Boulevard**

Output: The accident at this location does not have sufficient information!!

**Useful Links:**

1. <http://tools.seochat.com/tools/online-crawl-google-sitemap-generator/> - Web Crawling
2. <http://cogcomp.cs.illinois.edu/page/demo_view/srl> - SRL Tool