**Test-2**

**Introduction**

This task involves exploring the U.S. National Oceanic and Atmospheric Administration’s (NOAA) storm database. This database tracks characteristics of major storms and weather events in the United States, including when and where they occur, as well as estimates of any fatalities, injuries, and property damage.

**Data**

The data come in the form of a comma-separated-value file compressed via the bzip2 algorithm to reduce its size. File can be downloaded from the course web site:

[Storm Data - 47Mb](https://d396qusza40orc.cloudfront.net/repdata%2Fdata%2FStormData.csv.bz2)

There is also some documentation of the database available.

[National Weather Service Storm Data Documentation](https://d396qusza40orc.cloudfront.net/repdata%2Fpeer2_doc%2Fpd01016005curr.pdf) [National Climatic Data Center Storm Events FAQ](https://d396qusza40orc.cloudfront.net/repdata%2Fpeer2_doc%2FNCDC%20Storm%20Events-FAQ%20Page.pdf)

The events in the database start in the year 1950 and end in November 2011.

**Assignment**

Based on the subset of data that the analyst was able to extract, the data supports the following conclusions:

* For population health, what are the most threatening events in terms of both fatalities and injuries.
* For the economy, flooding and hurricanes what events is the costliest.

**Hint.** The dataset required extensive cleaning in order to produce a “clean enough” analysis. The EVTYPE was particularly challenging with a large number of invalid and undefined categories.

You may use any package you want to support your analysis.

Upload the PNG files and your code to your github repo.

For that current task – it’s enough to display plots on monitor…

**Questions**

1. Read the data set
2. Check and clean data
3. Count Fatalities and Injuries
4. Display diagram for fatalities and injuries per Natural Events from 1950 to 2011
5. Calculate the indirect impact of natural events on injuries and fatalities Show the most significant events
6. Calculate Property loss is in the following columns – Hint( PROPDMG, CROPDMG). Hint (PROPDMGEXP and CROPDMGEXP are magnitude for value calculation)
7. Display first most significant 10 property loss by events.
8. Make resulting conclusion.