**Analyze the Federal Aviation Authority Dataset using Pandas**

**Problem:**

Analyze the Federal Aviation Authority (FAA) dataset using Pandas to do the following:

1. View

* aircraft make name
* state name
* aircraft model name
* text information
* flight phase
* event description type
* fatal flag

1. Clean the dataset and replace the fatal flag NaN with “No”
2. Find the aircraft types and their occurrences in the dataset
3. Remove all the observations where aircraft names are not available
4. Display the observations where fatal flag is “Yes”

**Results and conclusions:**

1. The FAA Dataset has been evaluated. A total of 83 observations has been on the dataset. The following attributes have been extracted from the dataset:

* Aircraft make name
* State name
* Aircraft model name
* Text information
* Flight phase
* Event description type
* Fatal flag

1. Missing data has been added as per the logical conclusions.
2. 5 unidentified aircraft observations have been filtered out.
3. Analyzing the occurrences of aircraft names on the list, CESSNA which has 23 occurrences is on the top, followed by PIPER with 10 occurrences, then BEECH with 9occurrences, and so on.
4. A total of 7 occurrences have been found fatal, from the list of 78 occurrences in which aircraft name has been identified.