**Section1: Problem**

**The problem that we face:**

Dogs can be one of the dangerous and deadly creature in the world and what kind of dogs are the most dangerous and have to be aware. We are going to analyze what kind of dogs and how can they cause the most serious/ critical injury on other creatures.

**Questions need to find out:**

* Is dog defined as one of the dangerous creature in the world?
* Which suburb has the most frequent of dog attack?
* What is the most victim creature that attacked by dog?
* What kind of dog has highest attack record in the data?
* What kind of dog cause the victims death?
* What is the most injury that caused by dog according to the record?
* What kind of dog cause the most frequent injury?
* What kind of dog attack human mostly?
* What kind of dog attack dog mostly?
* Will there be more dog attacks in the future?
* What kind of creature that will cause dog to attack?
* When does the dogs cause most frequent attack?

**Section2: Approach**

Decision tree

K-mean distance

Clustering

Regression test

Mode

Mean

Minimum mode of the injury/ Minimum mode of the victim type/ Minimum mode of the dog type attack

Maximum

Variance

**Section3: Data**

Python Excel to clean data

From Australia government – dog attack historical data set

Use python code to write insert the dataset and clean up the data by changing the “?” sign value and the empty value to unknown value.