Waveform Dataset – Week 1

# Dataset understanding and Preprocessing

The Waveform Dataset is a classification dataset with the target variable as categorical type. All the variables are noises created by each instance of wave. Below are the key insights of the dataset.

## Dataset Information

* 3 classes of waves
* 40 numerical attributes all of which include noise
* The latter 19 attributes are all noise attributes with mean 0 and variance 1.
* The dataset contains 5000 instances with 0 null values.

## Attribute Information

* Each class is generated from a combination of 2 of 3 "base" waves
* Each instance is generated f added noise (mean 0, variance 1) in each attribute

# Preprocessing Techniques

Here I have performed two kinds of preprocessing techniques(max-min normalization and z-score normalization) for which I have stored the normalized datasets in different names which indeed has different values in it.