**Audio feature Extraction using OpenSmile**

* **Step 1 :** Install OpenSmile
  + Test whether it works or not by trying to extract features from a sample.wav file
* **Step 2 :** Choose a best **config** file (from a list of numerous pre-build config file present in **config** folder) to extract features relevant for emotion recognition
  + After reading the OpenSmile pdf's section-**2.5.6 Extracting features for emotion recognition**
    - **emo\_large.conf** is selected as it extracts a larger feature set with more functionals and more LLD(low levels descriptors) enabled
    - It can extract a total 6,552 features
* **Step 3** :  Use emo\_large.conf file to extract the audio features for each audio segment specified **sentimentAnnotations.xsl   (path to the file : data\_package\YouTubeDataSets\annotations\sentiment)**
* **Step 4 :** Feature filtering
  + Try different feature selectors
  + Reduce the number of features using different feature selectors
  + Finalize the feature vector
* **Step 5 :** Prepare three files which will have following format:
  + a text/csv file which will have only final features
  + a csv file in following format: 
    - **audioID, its features values, labeled sentiment (say 1 for positive and 0 for negative) for all audio files**