## **DSP Assignment 2**

ECE16U017

The calculation of MFCC and plotting the spectrograph Done on PYTHON

## CODE

```
import librosa
import librosa.display as ld
import python speech features as psf
import matplotlib.pyplot as plt
import numpy as np
import os
path = "C:\\Users\\rhin1\\Downloads\\DSP\\Assign 2\\Wavs"
for i in os.listdir(path):
   y,sr = librosa.load(name) #Load Wav
   lfe = psf.logfbank(y,sr,nfft = 1024) # Log filterbank energies
   mfcc = psf.mfcc(y,sr,nfft = 1024, winfunc=np.hamming) # MFCC
   plt.suptitle(i)
   plt.plot(time, y)
    ld.specshow(lfe, x axis = 'time')
    plt.colorbar()
   plt.tight layout()
    ld.specshow(mfcc, x axis = 'time')
```

```
plt.colorbar()

plt.tight_layout()

plt.show()
```

## **WAVEFORM**









