**Experiment no. 2**

**Aim : To perform audio file processing using Matlab**

**Software required : Matlab 7.0**

**Theory:**

Audio processing techniques can be used to improve the impact, clarity and subjective quality of your recordings. There are two audio processing techniques:

**Compression** - Compression is the process in which a file gets compressed in time .This can either be done by reducing the binary data used to encode it with mathematical algorithm or by increasing sampling rate/frequency.

**Expansion** **Compression** - expansion is the process in which a file gets expanded in time .This can either be done by increasing the binary data used to encode it with mathematical algorithm or by reducing sampling rate/frequency.

**Matlab commands**

* **sound(y,Fs) sends the signal in vector y (with sample frequency Fs) to the speaker on PC**
* **y = wavread('filename') loads a WAVE file specified by the string filename, returning the sampled data in y.**
* **n = length(X) returns the size of the longest dimension of X**

**Result:-**

**Conclusion:-**