System monitoring:

Most company’s workforce is based on their computer systems,therefore these must be capable of responding in any situation,and some times at any given time of the day . By using speech recognition we can monitor the system.

advantages:

* It will reduce the time cost
* To overcome keypad problems,instead of using keypad we use speech recognition
* It will helpful for people who have disabilities to use the system they can use this application to monitor the system.

Security to the given text obtained from the speech:

Now a days attackers may modify the text while sender and receiver transmitting the important data.To avoid this problem we provide security to the given text so that no one can modify the text while transmitting data from sender and receiver.

To provide security we use auto key cipher,it is one of the efficient technology in polyalphabetic cipher,In this cipher no two same letters get the same cipher text so that it is difficult for attackers to identify the letters for modifying purpose.

**CHAPTER 4**

**IMPLEMENTATION AND TESTING**

**4.1 System requirements**

**4.1.1 Minimum requirements**

* Pentium 200 MHz processor
* 64 MB of RAM
* Microphone
* Sound card

**4.1.2 Best requirements**

* 1.6 GHz Processor
* 128 MB or more of RAM
* Sound cards with very clear signals
* High quality microphones

**4.2 Hardware Requirements Sound cards**

Speech requires relatively low bandwidth, high quality 16 bit sound card will be better enough to work [13]. Sound must be enabled, and proper driver should be installed. Sound cards with the 'cleanest' A/D (analog to digital) conversions are recommended, but most often the clarity of the digital sample is more dependent on the microphone quality and even more dependent on the environmental noise. Some speech recognition systems might require specific

sound cards.

**Microphones**

A quality microphone is key when utilizing the speech recognition system. Desktop microphones are not suitable to continue with speech recognition system, because they have tendency to pick up more ambient noise.

The best choice, and most common is the headset style. It allows the ambient noise to be minimized, while allowing you to have the microphone at the tip of your tongue all the time. Headsets are available without earphones and with earphones (mono or stereo).

**Computer/ Processors**

Speech recognition applications can be heavily dependent on processing speed.

This is because a large amount of digital filtering and signal processing can take place in