**VOICE BASED PORTABLE MEDICATION REMINDER**

**AIM:**

The aim of this project is to remind people who forget to take their medicines on time using “**Voice based** **Portable Programmable Medication Reminder”.**

# EXISTING METHOD:

Many times the patients forget to take the appropriate medications as prescribed on their respective timing. Especially elder people because of their age usually forget to take their medicines. Thus patients at times face crucial problems resulting from missed dose or mistimed dose that affects efficacy of the drug and dosage needed for the patient to recover fast, and eventually the medicine fails to yield results for which it was supposed to act. Moreover, for doctors, paramedics, attainders and nurses to monitor the patients round the clock is quite a challenging and difficult task.

**PROPOSED METHOD:**

In order to avoid these problems, a programmable medication remainder system is developed for reminding people who forget to take their medicine on time.This project will help to remind the patient to take his/her medicine at prescribed time. The proposed system is best suited for elderly people and people who are very busy, as this device will not only remind them of their medicines with a buzzer sound but also displays the name of the medicine to be taken at that time with proper dosage.

**DESCRIPTION:**

The patient can store the respective time of the particular medicine through a matrix keypad. Based on an RTC (Real Time Clock) interfaced to the microcontroller, the programmed time for medicine is displayed on the LCD along with a buzzer sound to alert the patient about taking the appropriate medicine. The microcontroller used in this project is 8051. RTC used maintains an accurate time as it is supported by a crystal.

**BLOCK DIAGRAM:**

**POWER SUPPLY**

**RTC**

**KEYPAD**

**MICRO**

**CONTROLLER**

**(AT89S52)**

**VOICE IC**

**LCD**

**SOFTWARE TOOLS :** Keil uVision, ISP

**TARGET DEVICE :** Micro controller Board, RTC, keypad

**APPLICATIONS :** Used as remainder system for different applications.

**ADVANTAGES:**

* Low cost, easy to implement.
* Accurate
* Reduce the risk of delay in dosage of medicine.
* Reduces risk of taking wrong medicines.
* Eliminating the need of Monitoring
* Can be implemented in hospitals and home as well

**CONCLUSION :**

By implementing this system a person can be reminded to take prescribed dosage of medicines on the prescribed time.