SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY

(Affiliated to Anna University, Chennai)

SMART MEDICINE BOX

AARTHI.A   (713813105001)

SIBI.N   (713813105036)

SUSMITHA.S   (713813105314)

GOWTHAM VEL.K   (713813105501)

B.E., ELECTRICAL AND ELECTRONICS ENGINEERING

SUPERVISOR: Mr. P.KUMAR, AP/EEE

SYNOPSIS

The fast life of people has always taken a toll on their health. The paradox statement is that the new medicines are found for the never ending chain of diseases. These diseases which are discovered recently often require timely medicines at time and therapeutic courses for curing. But the engaged life schedule of the people often let down the best procedure.

Our project aims to remind and sophisticate the elder Peoples, deaf and dumb patients. We use Arduino MEGA2560 processor to control all the units. The box is designed with three openings such that each one is driven by a separate motor. Keypad, Motor, LCD display and sound alarm are connected with the processor separately. Since the confirmatory button in the keypad relays the motor to be in closed condition, where the entire circuitry follows a closed loop system. At the time of particulars where the medicine box opens and moves to the original position after a while are noted and is monitored. With that the confirmatory messages are sent to one number who cares for the user by a GSM module.

The timing unit in the arduino does not favor for the entire circuit. Hence to limit this problem we use RTC that serves as a 24 hour clock signal. The motor is used to open and close the sub-boxes in the medicine box. At once, where the clock reaches the user's mentioned time the motor operates in the forward direction and moves the box outwards. After a while, the feedback signal from the keypad again intimates the motor through the processor. Now the motor rotates in the backward direction which in turn it closes the corresponding sub-boxes.   Three sub-boxes were made in a one single box for user's purpose. Now the experiment is made with the successful completion of one single sub-box with the GSM Module. Output is verified with the opening and closing of that particular sub-box and the confirmatory messages are also received.