WIRELESS PATIENT HEALTH MONITORING AND ACCIDENTAL CRISIS MANAGEMENT SYSTEM:

The facility for the patient is limited due to the typical instruments which are used for monitoring the real time parameters in medical field. Every time it is not possible for patients to go to the hospital and take a service. System introduced is helping us for taking care of patient by themselves as well as by doctors. Here patients not only can measure parameters related to body but also they can see it. At the same time hospital and doctor can also get patient’s health update and subsequently they can give related instructions after correct diagnosis. The wireless devices which are used these days have high performance and able to identify faults. Medical errors are eliminated due to the wireless devices. So the workload at the nurse station of the hospital is reduced.

FRAMEWORK OF THE PROJECT:

* The primitive ways of measuring different vital parameters of patients were not accurate enough to provide the adequate way of patient monitoring.
* Need of the Technological Advances to improve the quality of life and overcome such diseases.
* Internet of things is one such thing.
* The arduino and various other sensors are used to do the careful monitoring The combination of IoT with arduino is the new way of introducing Internet of Things in Health care Monitoring system of patients.
* Accidental Crisis Management System

MATERIAL REQUIRED:

Gas sensor , Accelerometer sensor ,Pulse sensor , Dht sensor ,LCD ,Audrino uno ,Power supply ,Memory (atmega 8), wifi.

PATIENT HEALTH MONITORING USING ARDUINO & IOT:

* In this project, we are monitoring various parameters of the patient using internet of things. In the patient monitoring system based on Internet of things project, the real-time parameters of patient’s health are sent to cloud using Internet connectivity. These parameters are sent to a remote Internet location so that user can view these details from anywhere in the world.
* There is a major difference between SMS based Health monitoring and IOT based patient monitoring system. In IOT based system, details of the patient health can be seen by many users. The reason behind this is that the data needs to be monitored by visiting a website or URL. Whereas, in GSM based patient monitoring, the health parameters are sent using GSM via SMS.
* Using Wi-Fi Module the data can be seen using a desktop computer, laptop, using an Android smartphone using a tab or Tablet. The user just needs a working Internet connection to view this data. There are various cloud service providers which can be used to view this data over Internet. BLYNK,Things speak, Sparkfun and IOTGeek are few famous and easy to use service providers among these.
* To operate IOT based health monitoring system project, you need a WiFi connection. The microcontroller or the Arduino board connects to the Wi-Fi network using a Wi-Fi module. This project will not work without a working WiFi network.
* You can create a WiFi zone using a WiFi module or you can even create a WiFi zone using Hotspot on your smartphone. The Arduino UNO board continuously reads input from these 3 senses. Then it sends this data to the cloud by sending this data to a particular URL/IP address. Then this action of sending data to IP is repeated after a particular interval of time. For example in this project, we have sent data after every 30 seconds.
* The Arduino UNO board continuously reads input from these 3 senses. Then it sends this data to the cloud by sending this data to a particular URL/IP address. Then this action of sending data to IP is repeated after a particular interval of time. For example in this project, we have sent data after every 100 miliseconds