**Heartbeat Monitoring System**

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***Abstract*** *-* This paper presents an early sample for the monitoring of Heartbeat rate for the patients. The Heartbeat sensor, detects the pulse of the person and converts it into the form of electrical signals and pulse. The pulse rate of the person will be displayed on OLED [Organic light emitting diode] display. In order to measure our body temperature we use thermometers ,in the same way the Heartrate of the person can be measured in two ways: one way is to check manually at wrists or neck and the other way is to use a Heartbeat sensor. The Arduino nano present in the project acts as a microcontroller. Although number of methods had been implemented in this domain ,in this text which we had provided is a robust method or measuring Heartrate . Heartrate is most important in health parameter that is directly related to human cardiovascular system. Heartbeat use to monitor the health condition of out heart. The pulsating reflection is converted to a suitable current or voltage pulse by the sensor. The sensor output is processed by suitable electronic circuits to obtain a visible indication (digital display). It is also use by individuals like athletes who are interesting in monitoring there heart beat during a run in order to acquire maximum efficiency.

***Keywords****- Heart beat sensor module, Arduino nano, LED Display,* Microcontroller, real time…