Design & Development of IoT Application Using Raspberry Pi2 and ThingSpeak A Practical Approach

(Experimental Manual for B.Tech& M.Tech students)

For System on Chip and Embedded Systems

In association with Microsoft



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LIST OF EXPERIMENTS

Exp No.	Description of Experiment
Ехр. 1	To understand what is cloud, its importance, usage, services and types of Cloud.
Exp. 2	To familiarize with ThingSpeak and understand the procedure of creation of a
	Channel over ThingSpeak.
Exp. 3	To understand the procedure of MATLAB analysis of a ThingSpeak Channel.
Exp. 4	To understand the procedure of MATLAB visualization of a ThingSpeak Channel.
Ехр. 5	To understand the procedure of scheduling the MATLAB analysis code of a
	ThingSpeak Channel.
Exp. 6	To understand the integrated procedure of creation, analysis, scheduling and
	visualization of a Channel.
Exp. 7	To upload DHT11 sensor data to ThingSpeak channel through Raspberry pi2.
Exp. 8	To upload Light sensor (TSL) data to ThingSpeak channel through Raspberry pi2
Ехр. 9	To read Light Sensor data from ThingSpeak channel and store it into database
	through Raspberry pi2.