Chapter number	Software required (With version)	Hardware specifications	OS required
1	 Arduino software Python 2.7.x or Python 3.x 	 Arduino Raspberry Pi with installed Raspbian OS LDR sensor Temperature sensor (DHT-22) 	Desktop/Notebook with installed Windows, Linux or Mac
2	Python 2.7.x or Python 3.x	 Raspberry Pi with installed Raspbian OS Relay Temperature sensor (DHT-22) 	Desktop/Notebook with installed Windows, Linux or Mac
3	Python 2.7.x or Python 3.xOpenCV 2.4.x	 Raspberry Pi with installed Raspbian OS Webcam or USB Camera Pixy CMUcam5 and Pan/Tilt 	Desktop/Notebook with installed Windows, Linux or Mac
4	 Arduino software Google maps engine 	 Arduino Ultrasonic HC-SR04 module Bluetooth HC-06 GPS U-blox NEO-6M module Pololu Zumo Robot for Arduino 	Desktop/Notebook with installed Windows, Linux or Mac
5	 Arduino software Python 2.7.x or Python 3.x 	 Arduino Raspberry Pi with installed Raspbian OS Electret microphone 	Desktop/Notebook with installed Windows, Linux or Mac

		 module 10 segment LED bar graph EasyVR 3 and EasyVR shield 3 modules External speaker 	
6	 Arduino software Python 2.7.x or Python 3.x Arduino Cloud Microsoft Azure 	 Arduino MKR1000 Raspberry Pi with installed Raspbian OS 	Desktop/Notebook with installed Windows, Linux or Mac