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INTERNET OF THINGS LAB (R20)

Course Code: 20IT6L02 Faculty: R Uma Aruna Devi

Date of Exam: 27/3/2024

Class: III B. Tech - IT

Semester: VI

Timings: 09:00AM To 4:00PM

LIST OF PROGRAMS

- a) Familiarization with Arduino and perform necessary software installation.
 - b) To interface Push button/Digital sensor (IR/LDR) with Arduino and write a program to turn ON LE when push button is pressed or at sensor detection.
- 2 a) To interface Push button/Digital sensor (IR/LDR) with Arduino and write a program to turn ON LE when push button is pressed or at sensor detection. b) To intert
 - b) To interface Bluetooth with Arduino and write a program to send sensor data to smart phone using Bluetooth
- 3 a) To interface Bluetooth with Arduino and write a program to send sensor data to smart phone using Bluetooth
 - b) To interface Stepper motor with Arduino and write a program to control the same using potentiometer
- 4 a) To interface Stepper motor with Arduino and write a program to control the same using potentiometer
 - b) Familiarization with Arduino and perform necessary software installation.
- 5 a) To interface LED/Buzzer with Arduino and write a program to turn ON LED for 1 sec after every 1 seconds.
 - b) To interface OLED with Arduino and write a program to print temperature and humidity readings it.
- 6 a) To interface OLED with Arduino and write a program to print temperature and humidity readings it.
 - b) To interface Bluetooth with Arduino/Raspberry Pi and write a program to turn LED ON/OFF when '1'/'0' is received from smart phone using Bluetooth
- 7 a) To interface Bluetooth with Arduino/Raspberry Pi and write a program to turn LED ON/OFF wher '1'/'0' is received from smart phone using Bluetooth

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	To measure temperature using thermocouple by interfacing it with Arduino		
	To measure temperature using thermocouple by interfacing it with Arduino		
	To interface LED/Buzzer with Arduino and write a program to turn ON LED for	1 sec after every 2	
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m to turn ON LE	To interface Servo motor with Arduino and write a program to control the same		
nart phone using	To interface Servo motor with Arduino and write a program to control the same		
nart phone using	To interface thermistor with Arduino for temperature measurement		
using	2) To interface thermistor with Arduino for temperature measurement		
using	Write a program to create TCP server on Arduino/Raspberry Pi and respond with humidity da		
1 sec after every	Write a program to create TCP server on Arduino/Raspberry Pi and respond wit TCP client when requested To interface DHT11 sensor with Arduino and write a program to print temperat		
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