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	Shiram Vaish (BM18CS/52 Sth Sem 'B'	JOT 02/12/2020
by Clien	To control the led device through B	in master device Luctooth communication
Componen	2 x And Unio Board 2x Blue both Modul	le 40-05
0	Jumper Wires LED Push Button	· ·
Circuit = 1 master	Resistors Diagram: Clracit ->	
	V(C	C
	89 10 11 GND	DLED
	Tx Rx Key	
Push	VCC GINGS	
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	To Connect both the circuits-
	=
	• Slave (only :-
	AT + RMAAD (Klear baired)
	AT+ ROLE = O (for slave)
	AT + ADDR (To get bluerooth ID)
	AT + UART = 384000,0
	o Master Config
	AT+ RMAAD
	AT+ ROLE=1
1	AT+ (MODE=D (To connect to blue to the device)
and the second	AT + BIND = bluetooth-id
	AT+ UART = 38400,0,0
	Code in master -
	# Include < software Scrialin)
	Software Serial BT Serial (10,11);
	int Stak = 0;
	Const int led = 8;
No. of London	Void Schip () { pin Mode (led, OUTPUT); BIschal begin (3670)
<u>.</u>	Void lot p()
	{
<u></u>	if (BI senal ovailable () > 0)
	State = BT Serial gread();
	7
<i></i>	(Stat == 1)
<i></i>	\$
	digitalanie (led, HIGH)
	(1) State=0;
£ .]

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	A.
clase if (State == 0)	
	•
digital write (led, L	$o\omega$);
Statt = 0;	
y	
}	
	· · · · · · · · · · · · · · · · · · ·
Code in Slave ->	
# include (software serial b)	
Software Serial (1871); BI Scrial	(10,11).
int buttonpin = 2;	
int buttonstate = 1;	
Void Setup ()	
BT senal begin (38400);	
pin mode (butonlin, SIVP)	UT)
}	
Void loop ()	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
E Court	
byttonstak=digital Read (bytton pin)	,
buttonstate = digital Read (buttonpin) If (button State == LOW)	
2	
& BIscaral . write ("1").	
Clse Strial write ("0");	

	Turamaire classmate Date
	96 Aim: To build a fix Alexet System using Usm module.
	Components.
	GSM Module (SIM900A) Flame Sensor Sim Card (ED) BUZZET Arduino SVT Sim300A O GAND Flame Sensor
	Code:
	# Include (software Senal h) # define flame Ao; # define buzzer 12 # # Int temp=0; Software Senial SIM300A (718)
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				<i>Y</i>
Voic	l sety()			
			1 1 1 2	
5				
	Oir Malel	led, OUTPL	77.	
	1/m1/100c	(buzzer, 0	UTPUT),	
	Ciman	1960 1960	00),	
	Sevial ^ h	egin (960 egin (960	0);	
	ما واما	(1000)] / 	
	- day	(100)		
ી				
}	. ;.			
Vo	id loop()	, 1		
		6	, & 1	
{	3	٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠		
	temp=	analogRead	flome) * C	··00 1 88;
	7 a 4	on think seems		
	of large	4		
	fcmp=	(temp-	0.00 × 100.0	· · · · · · · · · · · · · · · · · · ·
	if (H	my >60)		•
			1	
		digital won	He (LED, H	1164);
		digital won	He (BUZZET,	41614);
	(5.	Sen'al prin	ten (8 F1:	re Pire");
		Sim 900 A.	println("AT	+ cmGF = 1");
		delay (50		\
		SimgooA	bontln ("	AT+ (MGS= \+9
		1.0		7691027248 *);
		delay (100);	- C. 15 N. C.
	3			er FIXE ALER
		delay (1	00)/	(4 2.1.
		>/m/900	A. brintln((nar)26)
		delay (10	00),	(5)

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	Simpood println (" ATD Scriol println (All th	+ 91769(0272818"); ne Alrras Sent);
N	delay (soo);	<i>J</i> ′
		ç
	else	
	§	- 2
	digital Wnite (LED, digital Conite (Buz	220, LOW);
	Simgua println	(" ATH");
)	Scholprintln(" Eve	yanir (10 mm))
}		- O
		<u> </u>
		: Mr.
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1	n Need of Iot Protocal: -
	Jos protocal on critical part of the IOS technology Stack, without them, hordware would be sendered weles, as the 10t protocal enables it to exchange data in a structured and meaningful way. In IoT, we always talk about Communication
	interaction blu consors; devices, goteways, servers and user Application but what enable all these stuff to talk and interact are protocols.
	Tot brotocol in each application layer: - • HTTP: HHP is the foundation of the clint Server model used for web-
	o websocket: websocket is a protocol that provides full-deselves communication over a single TCP connection b/w (lient and since).
	Messaging and presence information.
	and constrained petwork.
	· MQTT: It is an open source protocol for constrained devices and low bondwidth, high latinay network.

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	20 A Networking system is built to
	reliably more data. The data is in motion.
	That to level, data is moving through network
	rate and organization determined by
	the devices generating it.
`)	However some computational activities could
. A Salaran Maria	occur at level 2 such as protocol translation
-	or application of network scurry. Level 3, packet
	Inspection.
	10006 01111
	Most opplications source can't or don't
	Applications has the data at newsork wire speed.
	Applications typically assume that data is at rest
	data communication data is mailing.
	data communication data in motion is converted
	26 Facebook Messinger:
	Uses web Realtime Communication (web RTC)
	promoted, it is a free open source project that
	provide web process and mobile applications
	with ratine communication via APIS. It allow
	and ond Video communication to work inside
	Web pages by ollowing direct beer to beer
	Communication eliminosing the need to install
	plugins or download native apps.
	Amorro C. A. L. C.
	Amazon Web Services (AW) -
	It Uses standard total communication
_	ALCON COMMENT
A	protocols HTTP, MGTT and web Sockets.

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	Communication is secured wring TLS and uses SOAP protocol for odder APIS and
	uses SOAP protocol for odder APIS and
ALTER TOTAL VENEZA APPRA	exclusively 350M for may
2(to use 6LOWPAM
	to use 6 LOW 1710
	(i) Most Udivient routing: greduces the
	Size of routing tables and makes routing more efficient and hieroractical.
	(ii) Most efficient backet processing: IPV6's Simplified backet header maker backet
	Lancellin more My Clerk Compored 10 31 9
	TPV6 contains no IP Level checksum, so the checksum doesnor need to be gre calculated
	at every vouter hop.
	(iii) Different data flows: IPV6 supposts multicast grather than broadcast. Multicast
	allow hand andth intensive packet flows to
	be sent to multiple duringtion imultaneously
×	(IV) Simplified Notwork Configuration: Address auto configured is built in
	(V) support for new scrvices.
	(vi) Security
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	n () /