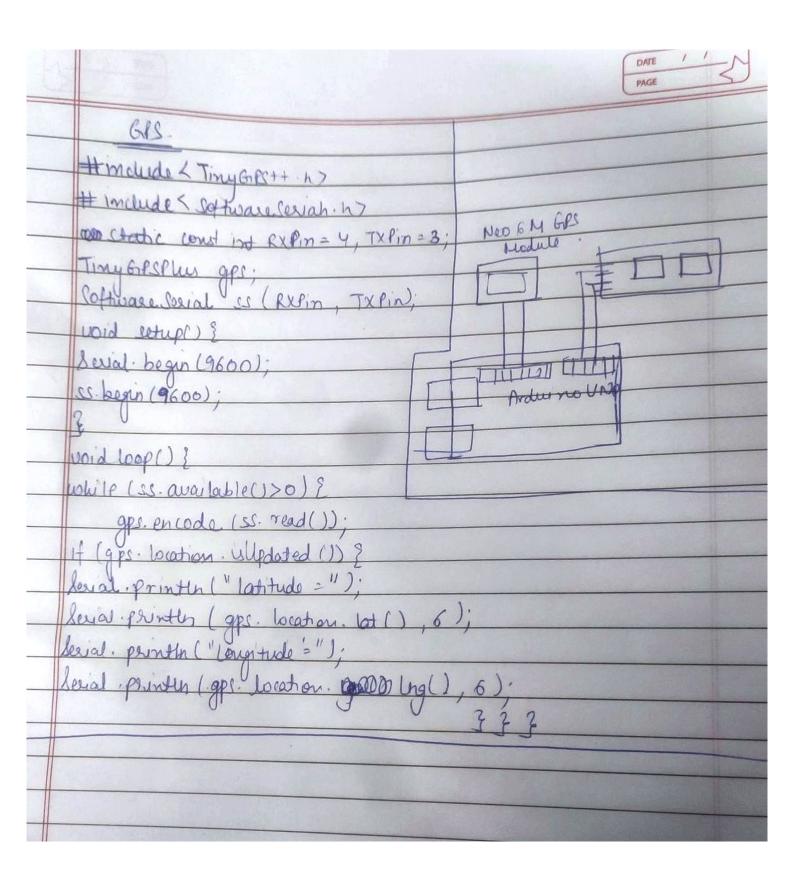
	ONE TO SERVICE OF THE PROPERTY
	Embedded unit 5
4	Tuput 1 Output Programming.
	Digital Output Circuitry: o to gain ineight into how to interface controllers to extend devices: D. Useful to examine the underlying circuitry. O Anything that can be controlled with a simple logical years true I false input can be a target.
	9-110 port consists of 8 bits.
	Arduino UNO Pin definitions:
-)	pinMode (8, OUTPUT): pinMode configures the specified Pin to home as either Enput or Output.
7	Note: Digital Pin 13 is harder to use as a digital Input the se other digital pins because it has LED and Push up resistor attached to it.
olatina o unod	gentax: digital write (pin, value). where pin = Pin number value = HIGH or low
	delay(): Pausos the program for an amount of time specified is a parameter. On the unit of delay is millise conds. Syndax: delay(me)
4	digital Read (): Reads a value from a specified digital lin, with
America	Syntax: digitalhoad (pin) (Returns HIGH or LOW)

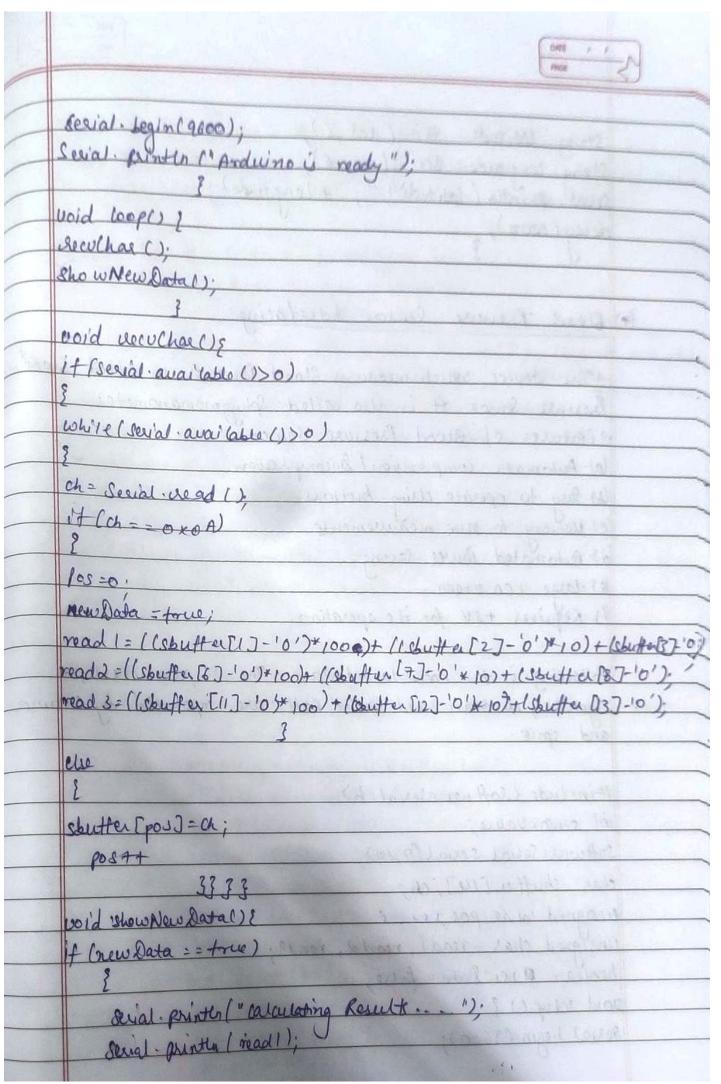
	Example:
	Cxancp.to
	Part 1010's 101
	int ledfin = 18;
	int unline 7;
	Ott -
	void setup ()
	The state of the s
	THE COURT PATIN, DUTPUT).
	Pintlade Cinfin, INPUT);
	Void Loop()
	digital write (lade , mill)
	digitalurite (ledlin, val);
	1
	Georgia and the most of the contract of the co
)	and interfacing with Aredu no
	Total and the state of the color of the state of the stat
	GILST Global Positioning System.
	Disatellite based navigation system made us of atteast 24 cottess
	whether conditions, anywhere is the world of house
	day with no subscription fees or setup charges.
b	-3 delay) foreson the experience for an amount of horse first
	working
	Q-GIPS Satellites circle the Earth twice a day in an orbit.
	2) Each satellite transmite a unique signal that albus 6,85 to dece
	and compute the precise location of the extellite.
	3. GRS receivers use this information to calculate a user's exact local
	D. GRS receivers calculate the distance with distance measureme
100	the roceiver can determine a were pasition and display it.
	The society an actumine a pack permon and applied of

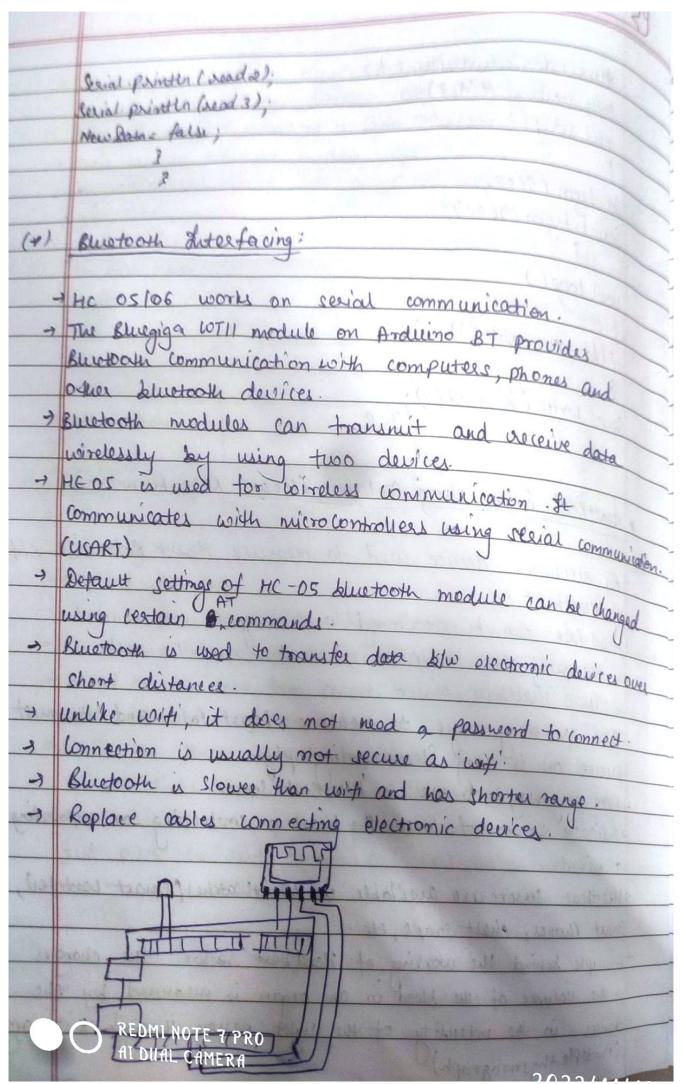
	The state of the s
100000000000000000000000000000000000000	Once position a has been determined, the Gils unit can calculate other information such as speed, trip distance, distance to destination etc.
•	destination, etc. GPS signals will pour through clouds, glass and plastic but and go through most solid objects, such as mountained building thouselves, modern receivers are more sensitive and can usually brack through houses.
	Gols signal consider 3 different types of information.
	2 - Extended to determine a satellite's position and Almanac data: Tello GRE receiver where each GRS satellite should be at any time.
-)	Download and install required libraries for aps to ware
	a) Tryoth ubrasy.
2)	NEO-6M GRS MONULE
(0)	Neo-EM APS Chip: The heart of the module. If can track upto 22 extellites.
(9)	Sensitive applications like are unistwatch. Position fix LED Indicator: -> Blinks at various rootes depending
	No blink > scaeching for satellites. Blinks every 1s > Position fix is found.
\bigcirc_{i}	REDMENOTE 7 PRO 3

Sottery is automatically charged when power is applied and maintain data for upto two weeks without power

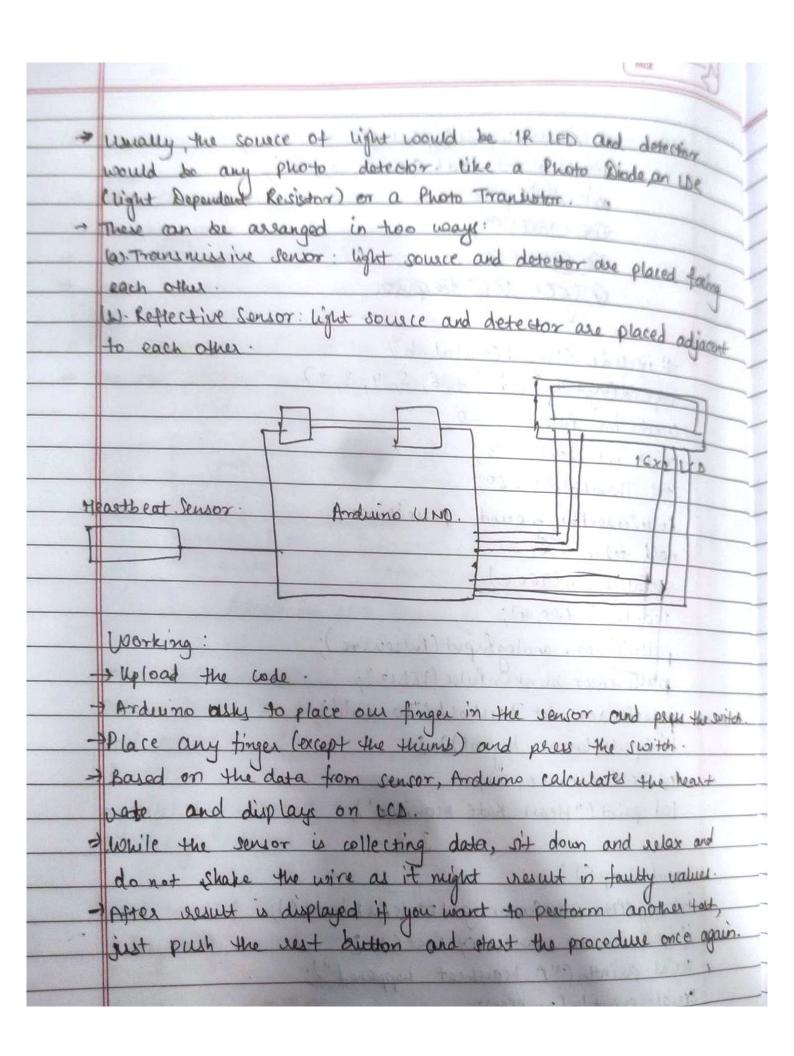


	- (Aphallas)A
(*)	Blood Pressure Sensor Laterfacing:
	Pressure Sensor. It is also called Sphygmomanometer. Fratures of Blood Pressure Consor:
	(a) - Automatic Compacision / Docompression. (b) Pasy to operate Using Sections- (c) Manager to save measurements.
	d) Automated Rouse Saving.
	f. Requires +SV for its operation.
	following is the code to interface. The 3 parameters,
- 1	systolie, diastolic and pulse Rate are separated by comma and space.
	#include & Soft waveserial. W the sensor Value; Arabino
	not ware Serial (9,10); has shuffer [14], ch;
e	neigned that read , read 2. read 3.
U	oid setup ()?
36	rial begin (9600);

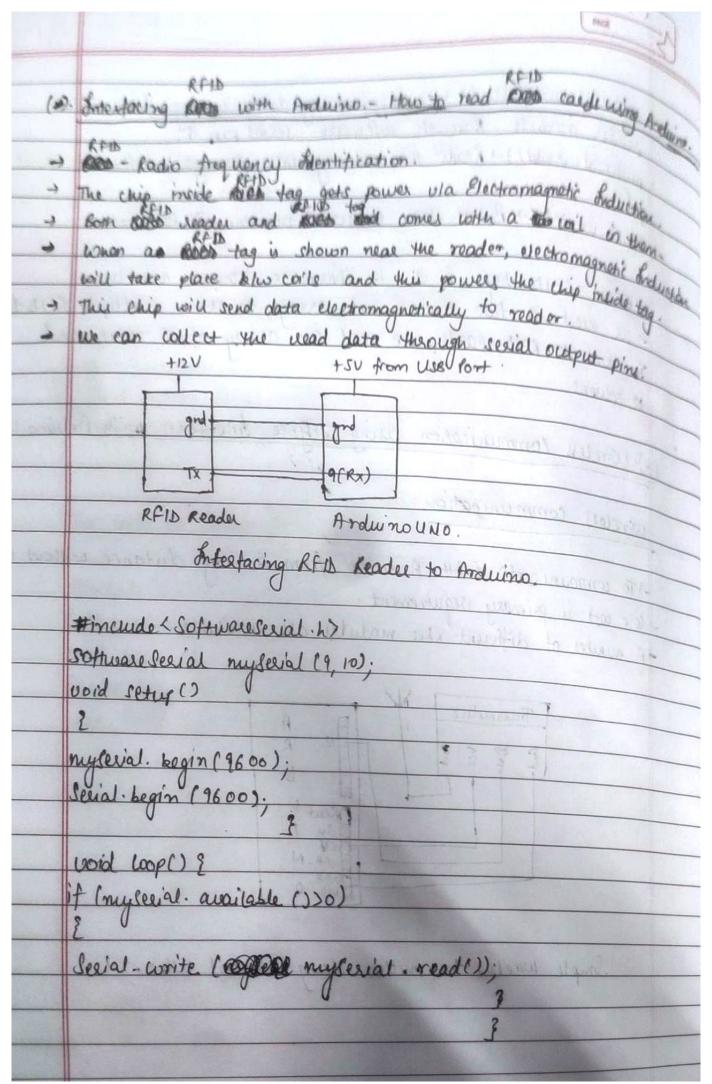


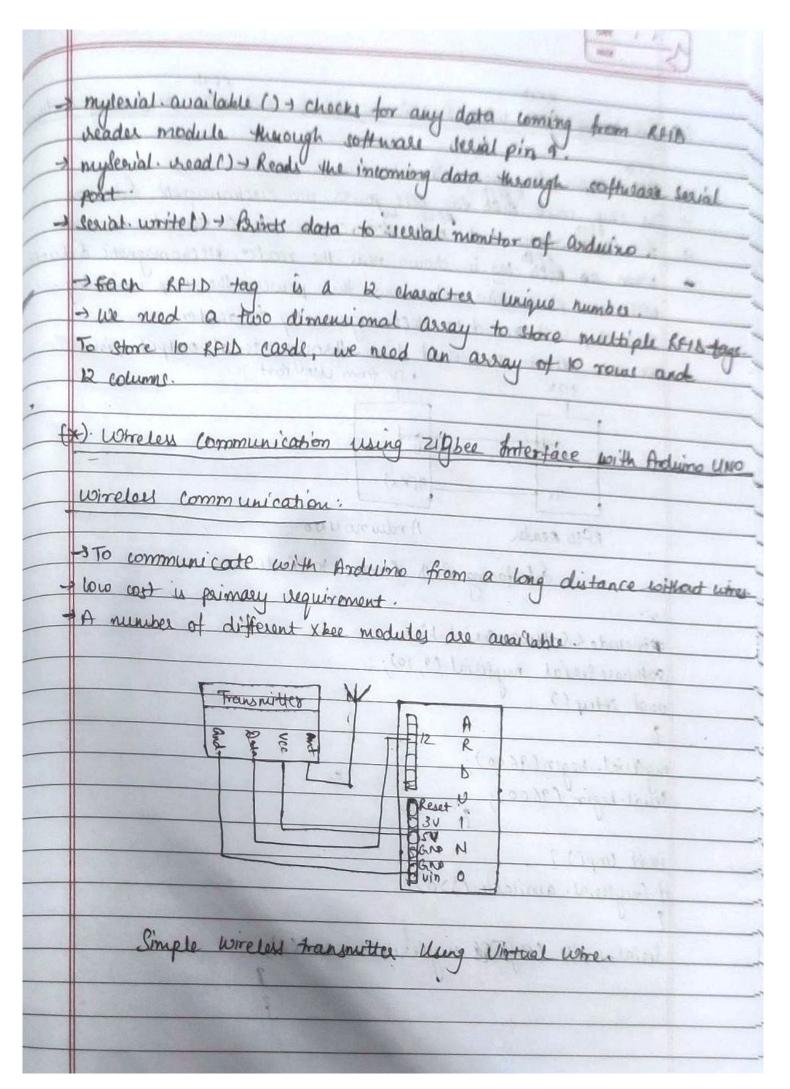


	DOTE / /
-	
1	Hinclude & Softwarelevial. h) Softwarelevial H(2,3).
	void setup()
	2 side at the control of the control
1	of lands days a
10	evial begin (9600);
	2 2 19600);
1	soid loop ()
1	f(bt. available())
+1	f (bt · available ())
-	Serial write (lat road ()).
13	Revial write (bt road 1):
	what rimer has 13.8 and more thanks had
	Andreas to the second to the second to
*	Heart Beat Course Union a 1 1
1	Heart Beat Sensor Using Andrews (Heart Rate Honitor)
1	A HOLD POLICE TO THE PARTY OF T
-	An electronic don't
	aculte illed to me
5	of Heartheat
7	Heartheat. Heart Rate can be monitored in a
4	Heartheat. Hearthat can be monitored in 2 ways:
7	Heartheat. Hearthoat Can be monitored in 2 ways: O hearwally check the pulse either at wrisk or neck. O the a Heartheat sensor.
-	Heartheat. Heartheat can be monitored in a ways: O hearnally check the pulse either at wrisk or neck. O the a Heartheat sensor. There are many ways to meaning looset the all the
	Heartheat. Heartheat. Heartheat. O hearnally check the pulse either at wrisk or neck. O the a Heartheat sensor. There are many ways to measure heart fate and the next precise one is using flectro cardinarachy.
	Heartheat. Heartheat. Heartheat. O hearvally check the pulse either at wrisk or neck. O the a Heartheat sensor. There are many ways to measure heart fate and the next precise one is using flectro cardiography. None easy way is to use a Heartheat sensor.
	Heartheat. Heartheat. Heartheat. D. Harvally check the pulse either at wrisk or neck. D. War a Heartheat sensor. There are many ways to measure heart fate and the meet precise one is using flectro cardiography. More easy way is to use a Heartheat Sensor. I Soulicates the no. of times the heart is contracting or expanding
	Heartheat. Heartheat can be monitored in a ways: Defeatheat can be monitored in a ways: Defeatheat can be pulse either at wrisk or neck. Defeatheat sensor. There are many ways to measure heart fate and the mest precise one is using flectro cardiography. Lione easy way is to use a Heartheat Sensor. I have easy way is to use a Heartheat Sensor. I have easy way is to use a Heartheat Sensor.
-	Heartheat. Heartheat can be monitored in a ways: Defeatheat can be monitored in a ways: Defeatheat can be pulse either at wrisk or neck. Defeatheat sensor. There are many ways to measure heart fate and the mest precise one is using flectro cardiography. Lione easy way is to use a Heartheat Sensor. I have easy way is to use a Heartheat Sensor. I have easy way is to use a Heartheat Sensor.
	Heartheat. Heartheat. Heartheat. D. Harvally check the pulse either at wrisk or neck. D. War a Heartheat sensor. There are many ways to measure heart fate and the meet precise one is using flectro cardiography. More easy way is to use a Heartheat Sensor. I Soulicates the no. of times the heart is contracting or expanding
	Heartheat. Heartheat can be monitored in 2 ways: D. Hearthly check the pulse either at wrisk or neck. D. Use a Heartheat sensor. There are many ways to measure heart fate and the meet precise one is using flectro cardiography. None easy way is to use a Heartheat Sensor. I shalicates the no. of times the heart is contacting or expanding a minute. Heartheat sensors are available in which watches (smart watches), smart shones, chest straps, etc.
	Heartheat. Heartheat can be monitored in 2 ways: Defeathat can be monitored in 2 ways: There are many ways to measure beast fate and the most precise one is using flectro cardiography. None easy way is to use a Heartheat Sensor. I bridicates the no. of times the heart is contacting or expanding a minute. Heartheat Sensors are available in whiletwarkers smart wasters, smart shorters, chest straps, etc. Frinciple behind the working of Heart beat Savor: the changes
7	Heartheat. Heartheat can be monitored in 2 ways: D. Hearthly check the pulse either at wrisk or neck. D. Use a Heartheat sensor. There are many ways to measure heart fate and the meet precise one is using flectro cardiography. None easy way is to use a Heartheat Sensor. I shalicates the no. of times the heart is contacting or expanding a minute. Heartheat sensors are available in which watches (smart watches), smart shones, chest straps, etc.



code: It ischude & liquid Cystal 15 While Chord fed 6, 5, 3, 2, 1,0) ente quality page; CO UNDO CO Bet Classes + Coo; Catholic Control Control # include Kliquid Crystal, h) liquid Crystal [led 17, 6, 5, 4, 3, 2) const int Pulsewire = 0; const int led 13 = 13; Ant Threshold = 550; PulseSensorPlayground pulseSensor; g t-) guter blow Serial begin (9600) 1cd. beg in (20, 4); PulseSensor. analog Supro (Pulseus no); pulse Sensor blink on Pulse (1ED13); pulse Season Set Threshold (Threshold); 1+ (pulselenson, begin())? led set lusor (0,0); Icd paint ("Heart Rate Monitor"); void loop () ? int my BPM = Pulse Sensor, get Beats Per Minute (); if (pulseSerson sainstart of Beat ()) ? serial printly (" A heartheat happened"); serial - println (my BPM); Icd. set cusor (& B) · led - print (my BPM); delay (20); }





	PAGE
On the transmitting side, the code coll be:	
#Include < lofturere Spriat . h>	
Software Scial xbee Scial (2,3);	
void retup()}	
Reial begin (9600);	
skeial begin (9600);	
0 1	
wold toop()?	
it (sevial. available ()>0) &	•
chas input = Serial . read ();	
thee Secial print (input);	
13	
The code for receiving side is:	
#include (Softwarelegial.h)	
Software Serial xbeeserial (2,3);	
void setup(){	
Serial begin (9600).	
xbee Seval. begin (9600);	
7	THE WASTE
void loop () }	
if (xbee Sevial, available ()>0) {	
char infect = xbee Serial read();	
levial existle hout)	
Secial print (imput);	
3	