Alm: Write a Brogram to transfer Sensor data to smart Phone using bluetooth on Anderso.

Hardware Requirements:

Enterly (TRIGHPIN, OUTPUT);

Phylode (Led, OOTPOT); -

PENLOCKE (ECHOPIN, INPOT);

Daniel King

- 1. Anduino UNO
- 2. Android smortphone that has Bluetooth
- 3. Hc-05 Bluetooth module
- 4. Android standio (To develop the required Andriod App)
- 5. USB table for Programming and Rowering the Andwino.

digital White (TRIGITIN, HIGHT);

## Procedure:

of the System. ([HOIH MIGONS]) The sole took

I Goo to took select Roit. (HAH) stock tolk believed.

- select board (tordino UNO) - (s) 10 EO.O " n = d

-> connet Trimper unives to the Pin . Soule the Program.

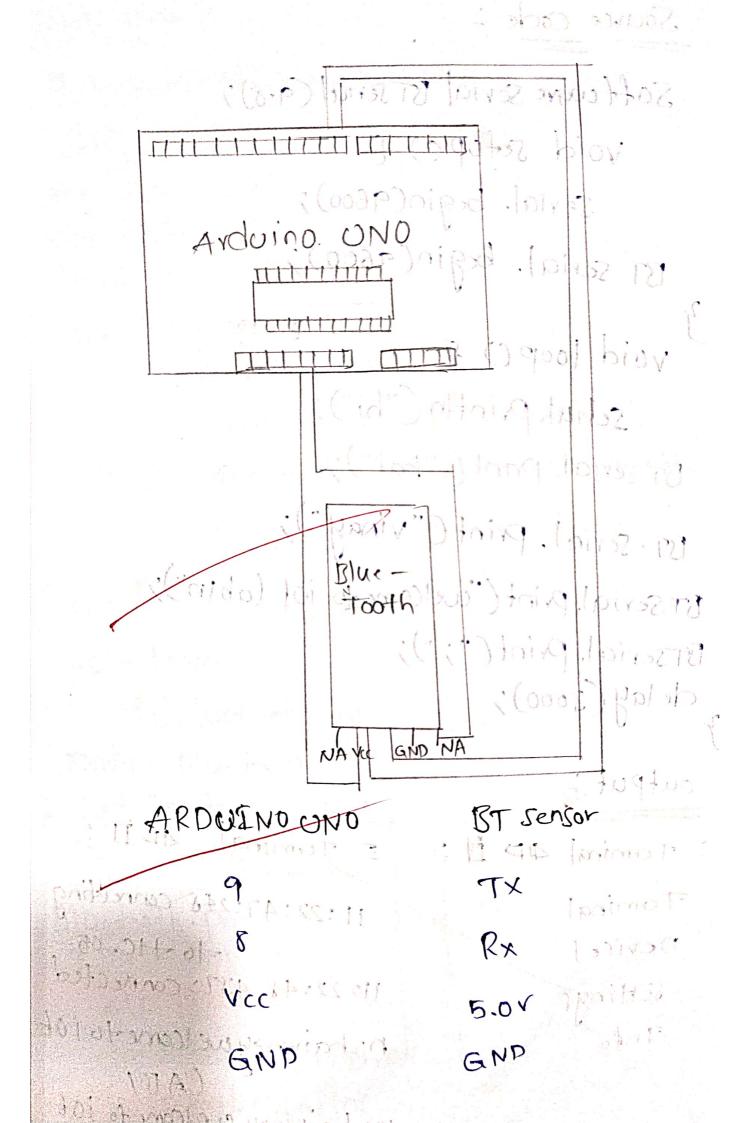
-s Verify/compile.

m) Z

Is upload.

Vcc	all ever la
GND	CNO CON
TX	9
RXII	8

110 Cm 2323 Cm



11 His on board LED Program: # include ( software Serial. h) Software Serial BT. Serial (9,8); 1/RXITX Void setup () { begin (960); Serial. begin (9600); (6000 P) FN BTSerial · begin (9600) just of produces ) net Void loop () { " but foi must out o bout Leviel Printeln ("Li"); (7097000 001) BT Sevial. Privithn ("trai"); BT Serial. Printeln ("Struth");

```
BT Serial Println ("welcome To ist LAB In");
       BT Serial . Println ("; ");
       delay (3000);
  Output:
   Shonnu.
  aldrome to lot LAB
Program:
#include < software Serial. h ).
 Software Serial Bluetooth (9,8); //Rx, Tx
 Int LEO = 13; // the on-board LEO
                                            (montpart)
Int anta; Il the data received was manufad > abulani #
               Septembra Seviral (9,8); 118x 17x
Void Satup () {
    Bluetouth begin (9600);
                                      } 1) Juted bial
   serial. begin (9600);
                          devial begin (9600)
   Sural Printle ("waiting for command: ");
   Bluetooth Println ("send I to turn on the LEP.
             and o to two off the LED");
    Påntrode (LEO, OUTPUT);
                           er. Soudiffer the Charli
3
                          erduid Privata ("Shouth"
```

```
World Joop 11 {
                            11-1115-11
    If Bluetooth. orlailable (1) {
  Rota = Bluetooth . Keard ();
                                    Bright
 if (pate == ',') {
                                     · lessotaria inz
digital Write (LED, HIGH);
Serial. Println ("CED on! "); (");
 Bluetooth-Printhn ("CEO on! ");
      entroduct objections to trigh-speed dates
else 4 (anta== 'o') 12 d'o' == alle que de la company
digital Write (LED, LOW);
                                     · dangel is
 berial. Println (" LEO 10ff!");
Bluetooth Printhy ("LED off!");
          3. a matter input (shoke output (11150)
                        (22) told worth a it
  else (;)
delay (1000); it 2222012
       Terminal
       connecting to HC-05
                                   New line
                                           9600
       connected
       waiting For tommond
       bend to turn on
                        The date spelly of
       send a to turn off
                          LEO OFF!
                                JI 512 347 M White
       LED On !!
       I CO AFF
```