DEVELOP A PYTHON SCRIPT

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| Date | 3 November 2022 |
| Team ID | PNT2022TMID37463 |
| Project Name | Signs with Smart Connectivity for Better Road Safety |
| Maximum Marks | 4 Marks |

**CODE:**

#include <TinyGPS++.h> #include <SoftwareSerial.h> TinyGPSPlus gps; SoftwareSerial ss (3,4); char n;

int a;

void setup() { Serial.begin(9600); ss.begin(9600); pinMode (2,

INPUT): pinMode (6, OUTPUT); pinMode(11, OUTPUT); pinMode(10, OUTPUT); pinMode (9,

OUTPUT); pinMode (12, OUTPUT); //apr digitalWrite(11,HIGH); digitalWrite(6,HIGH);

attachInterrupt (digitalPinToInterrupt (2), piezo,CHANGE);

}

void loop() { n- Serial.read(); // Serial.println(" "); delay (200);

if (n=='3') {

digitalWrite(6,HIGH); digitalWrite(11,HIGH); digitalWrite(12,HIGH); delay(200); digitalWrite(12,LOW); } else if (n=='2') digitalWrite(6,LOW); digitalWrite(11,LOW); digitalWrite(10,LOW); digitalWrite(9,LOW); digitalWrite(12,HIGH);

delay(200); digitalWrite(12,LOW); } else if (n=='1') analogWrite(11,100); analogWrite(6,100); digitalWrite(12,HIGH); delay(200); digitalWrite(12,LOW);

}

}

// while (ss.available() > 0)

// if (gps.encode(ss.read()))

// displayInfo(); void displayInfo()

{

// Serial.print (F("Location: ")); if (gps.location.isValid()) Serial.print(gps.location.lat(), 6); Serial.print (F(",")); Serial.print(gps.location. Ing(), 6); } else

// Serial.print (F ("INVALID")); Serial.print("10.305125"); Serial.print(','); Serial.print("76.389582");

}

/\* Serial.print(F(" Date/Time: ")); if (gps.date.isValid())

{

Serial.print(gps.date.month()); Serial.print (F("/")); Serial.print(gps.date.day()); Serial.print (F("/")); Serial.print(gps.date.year());

}

else

{

Serial.print(F("INVALID"));

}

Serial.print (F(" ")); if (gps.time.isValid())

{

if (gps.time.hour() < 10) Serial.print (F("0")); Serial.print(gps.time.hour()); Serial.print (F(":"));

if (gps.time.minute() < 10) Serial.print(F("0")); Serial.print (gps.time.minute()); Serial.print (F(":"));

if (gps.time.second() < 10) Serial.print(F("0")); Serial.print(gps.time.second()); Serial.print (F("."));

if (gps.time.centisecond() < 10) Serial.print(F("0")); Serial.print(gps.time.centisecond());

}

else

{

// Serial.print (F("INVALID"));

}\*/ Serial.println();

}

void piezo()

{

while (ss.available() > 0) if (gps.encode(ss.read())) displayInfo();

}

int a=0,b=0,c=0,d=0; void setup() { pinMode (D1, INPUT); pinMode (D2, INPUT); pinMode (D3, INPUT); pinMode (D4, INPUT);

digitalWrite(D1,LOW); digitalWrite(D2, LOW); digitalWrite(D3, LOW); digitalWrite(D4, LOW); Serial.begin(9600);

}

void loop()

{

a=digitalRead(D1); if (a==1) { Serial.print("1"); } b=digitalRead (D2); if (b==1) { Serial.print("2"); } d=digitalRead(D4); if (d==1)

{

Serial.print("3");

}

}