

DEVELOP A PYTHON SCRIPT

Date	03 November 2022
Team ID	PNT2022TMID52558
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); //ap
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.lng(), 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();
}

```