

DEVELOP A PYTHON SCRIPT

Date	3 november 2022
Team ID	PNT2022TMID53515
Project Name	Project- <u>Signs with Smart Connectivity for Better Road Safety</u>
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();
}

```

