DEVELOP A PYTHON SCRIPT

Date	9 November 2022
Team ID	PNT2022TMID31035
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);

charn;
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);
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();
voiddisplayInfo()
{
// 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();
}
```