DEVELOP A PYTHON SCRIPT

Date	9 November 2022
Team ID	PNT2022TMID31035
Project Name	Signs with Smart Connectivity for Better RoadSafety
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); //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();
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();
}
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,LO);
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(D);
if (d==1)
{
Serial.print("3");
}
}
```