

DEVELOP A PYTHON SCRIPT

Date	3 november 2022
Team ID	PNT2022TMID03062
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); //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.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();
}
```