

Date	10 November 2022
Team ID	PNT2022TMID18146
Project Name	Project - 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); //apn
  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);
}
}
displayInfo()
{
if(gps.location.isValid())
{
Serial.print(gps.location.lat(), 6);
Serial.print (F(", "));
Serial.print(gps.location. lng(), 6);
}
}
else{
Serial.print("10.305125");
Serial.print(', ');
Serial.print("76.389582");
}
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();
```