

```
/*
```

Question 1:

What is the most complicated code you have written independently without AI or anyone else's assistance?

```
*/
```

```
void setup() {
```

```
    Serial.begin(9600);
```

```
}
```

```
void loop() {
```

```
    // Simulating live GPS coordinate streaming with incremental changes
```

```
    float lat = 20.235808, lon = 85.722868;
```

```
    for (int i = 0; i < 100; i++) {
```

```
        lat = lat + 0.000012;
```

```
        lon = lon + 0.000012;
```

```
        Serial.print("#");
```

```
        Serial.print(lat, 6); // Print latitude with 6 decimal places
```

```
        Serial.print(",");
```

```
        Serial.print(lon, 6); // Print longitude with 6 decimal places
```

```
        Serial.print("$");
```

```
        Serial.println();
```

```
        delay(100);
```

```
    }
```

```
}
```

I had a web application that displays a map,takes the coordinates in the format #lat,lon\$ and displays a marker on the coordinates received from the USB capable GPS Sensor,I've programmed an ESP32 microcontroller in such a way that generates the coordinates as if it is coming from a real GPS Sensor and the web application still displays the marker on the map.This process is known as GPS Spoofing.