```
package com.example.covid_19alertapp.models;

/*
model for MyLocationMapsActivity
 */

public class MapMarkerLocation {

    private double latitude, longitude;

    private String meaningfulDateTime;

    private String rawLatLon, rawDateTime;

    public MapMarkerLocation() {
    }

    public MapMarkerLocation(String latLon, String dateTime){

        this.rawLatLon = latLon;
        this.rawDateTime = dateTime;

        // latLon = diagonal latLng point separated by ','
        String[] splitLL = latLon.split(",");

        // get the middle point
        this.latitude = ( Double.valueOf(splitLL[0]) + Double.valueOf(splitLL[2]) ) / 2;
        this.longitude = ( Double.valueOf(splitLL[1]) + Double.valueOf(splitLL[3]) ) / 2;
```

```
    // dateTime = month-date-hour
    String[] splitDateTime = dateTime.split("-");

    this.meaningfulDateTime =
            month(Integer.parseInt(splitDateTime[0])) +
            " "+splitDateTime[1] +
            ", "+time(Integer.parseInt(splitDateTime[2]));

}


private String time(int time) {

    if(time==0)
        return "12AM";

    if(time<12)
        return time+"AM";
    else
        return (time-12)+"PM";

}

private String month(int month) {

    switch (month){

        case 1:
            return "January";
```

```
        case 2:
            return "February";
        case 3:
            return "March";
        case 4:
            return "April";
        case 5:
            return "May";
        case 6:
            return "June";
        case 7:
            return "July";
        case 8:
            return "August";
        case 9:
            return "September";
        case 10:
            return "October";
        case 11:
            return "November";
        case 12:
            return "December";

        default:
            return "Unknown month";
    }

}
```

```
public double getLatitude() {
   return latitude;
}

public void setLatitude(double latitude) {
   this.latitude = latitude;
}

public double getLongitude() {
   return longitude;
}

public void setLongitude(double longitude) {
   this.longitude = longitude;
}

public String getMeaningfulDateTime() {
   return meaningfulDateTime;
}

public void setMeaningfulDateTime(String meaningfulDateTime) {
   this.meaningfulDateTime = meaningfulDateTime;
}

public String getRawLatLon() {
   return rawLatLon;
}
```

```
    public void setRawLatLon(String rawLatLon) {
        this.rawLatLon = rawLatLon;
    }

    public String getRawDateTime() {
        return rawDateTime;
    }

    public void setRawDateTime(String rawDateTime) {
        this.rawDateTime = rawDateTime;
    }

    @Override
    public String toString() {
        return "MapMarkerLocation{" +
                "latitude=" + latitude +
                ", longitude=" + longitude +
                ", meaningfulDateTime='" + meaningfulDateTime + '\'' +
                ", rawLatLon='" + rawLatLon + '\'' +
                ", rawDateTime='" + rawDateTime + '\'' +
                '}';
    }
}
```