Function: **GPS2Cell**

**Input:**

* 1. GPS Border of HCM city:
     + TopLeft: Point(11.175186, 106.309795)
     + BottomRight: Point(10.368436, 107.036295)
  2. Gird:
     + Point (0,0) is in upper left (=> Cell Point (0,0) == GPS Point of TopLeft ).
     + GirdSize: 0.001 x 0.001 (Latitude x Longitude)
  3. GPS Point:
     + Point(Lat, Long)

**Pseudocode:**

Function GPS2Cell (Point p) {

double x = (TopLeft.getLat() – p.getLat()) / GirdSize.getLat();

double y = (p.getLong() - TopLeft.getLong()) / GirdSize.getLong();

return new Point (Math.ceil(x), Mat.ceil(y))

}

**Output:**

1. Cell Point: Point(x,y)