For Part I, you must include a written description of three observable trends based on the data.

The hottest place is near equator whose latitude is zero. Temperature decreases as we move away from the equator. When moving away from equator, a) in the Northern hemisphere, the larger the latitute, the lower the temperature; b) In the Southern hemisphere, as the latitute decreases, so is the temperature.

Humidity is very high (>70%) near equator.

In the Northern hemisphere, the humidity increases when latitute become bigger. In Southern hemisphere, the correlation between latitude and humidity is less strong.

No clear relationship between latitude and cloudiness, but variation of cloudiness among cities are evenly distributed throughout different latitudes.

Note: No strong correlation bewteen latitude and wind speed. However, we do see that as we move away from equator, the wind speed increase for a small number of cities in Northern atmosphere.

The relatively tight fit of the regression model with the data points of Latitute & Max Temperature for the Northern Hemisphere. ?? Not sure why the r-squared is negative. I thought it should be around 0.6 - 0.7 instead.

 We can see a positive correlation was observed between the latitude and the maximum temperature for Southern Hemisphere.

In Northern hemisphere, there is a very small positive correlation between the Wind Speed and Latitude.