***“WeatherPy Analysis”***

1. ***From city latitude and max temperature plots & regression lines:***

As it is expected, the closer to the equator line, the higher temperature can be seen in different cities which are selected randomly. It can be concluded from the amount of latitude when it reaches to zero, the amount of max temperature becomes higher and higher and when it gets away from zero even in positive or negative ways, the max temperature becomes lower. So, there is a negative relationship between latitude and max temperature in northern hemisphere with the latitude more than zero (the downward trend of regression line and negative amount of slope can prove it as well). Furthermore, these numbers and plots show the reverse relations in southern hemisphere with the latitude less than zero and with positive relationship between latitude and max temperature and positive amount of the slope and upward trend of regression line.

1. ***From (city latitude and humidity) and (city latitude and cloudiness) plots & regression lines:***

It can be stated that there is no strong and meaningful relationship between latitude and humidity and also between latitude and cloudiness not in surveying all random cities not even in southern hemisphere & northern hemisphere. It can be approved by looking at their related plots, regression lines, calculations and statistical results too.

1. ***From latitude and wind speed plots & regression line:***

There is no strong relationship between latitude and wind speed in different cities and they are far from each other without any reasonable relation. But The correlation coefficient and linear regression model depict a weak positive correlation between latitude and wind speed in the northern hemisphere which is totally upside down in southern hemisphere and we can see a negative correlation between wind speed and latitude there.