

**CS5380**  
**BIG DATA LABORATORY**

**ASSIGNMENT - 2**

SARATH S  
BS20B033

## TASK-1

Refer to the attached code(pipeline\_1.py) for the full pipeline. The climate data was successfully scraped using BeautifulSoup library(scrape function). The data was archived into a zip file (data.zip) using an archive task and placed in climate data directory.

## TASK-2

The extracted CSV files were processed to filter the dataframe based on required fields and extract Lat/Long values to create tuples of hourly data. Monthly averages of the required fields are computed and finally, using 'geopandas' and 'geodatasets' packages, heatmaps for the fields - `['HourlyDewPointTemperature','HourlyPrecipitation']` at different lat/lon positions were generated.

Refer attachments for all the png files.





