Manipal School of Information Sciences, Manipal

Second Semester Master of Engineering – ME (Cloud Computing)

First internal test – April 2022

Subject: CDC 5253 – Data Streaming and Visualization Lab

Wednesday April 27, 2022

Time: 2.00 PM – 4.00 PM Maximum Marks: 30

Use Weather Data in India from 1901 to 2017.csv as input file

Answer all questions

- 1. Add column average temperature for each year
- 2. Add row average temperature of each month
- 3. Add columns Min and Max for each year with corresponding values
- 4. Create dataframe called 'decade', storing average temperatures of each month in the respective decade. Decade 1910 is from 1901 to 1910.
- 5. Which year is the hottest year? (Based on avg temp)
- 6. Which year is the coldest year? (Based on avg temp)
- 7. Find out which years recorded minimum and maximum temperatures. (Not based on avg temp)
- 8. How much raise is observed in min and max temperature for each month?