<u>**Experiment No- 4**</u>

Aim :- Implement Time Series Analysis for rainfall in R Programming.

Objective:- To understand the use of time series models for prediction.

Description:-

- Time series analysis is a specific way of analyzing a sequence of data points collected over an interval of time. In time series analysis, analysts record data points at consistent intervals over a set period of time rather than just recording the data points randomly.

The basic syntax for ts() function in time series analysis is –

- timeseries.object.name <- ts(data, start, end, frequency)

Following is the description of the parameters used –

- data is a vector or matrix containing the values used in the time series.
- start specifies the start time for the first observation in time series.
- end specifies the end time for the last observation in time series.
- frequency specifies the number of observations per unit time.

- Except the parameter "data" all other parameters are optional.

Different Time Intervals