

Practical No.7

Perform the data classification using classification algorithm.

**Classification**

- **Classification** is a **data mining** function that assigns items in a collection to target categories or classes.
- The goal of **classification** is to accurately predict the target class for each case in the **data**.
- For example, a **classification** model could be used to identify loan applicants as risky and safe.
- Classifier
- Prediction

Consider the annual rainfall details at a place starting from January 2012. We create an R time series object for a period of 12 months and plot it.

#Consider the annual rainfall details at a place starting from January 2012.

#We create an R time series object for a period of 12 months and plot it.

```
rainfall <- c(799,1174.8,865.1,1334.6,635.4,918.5,685.5,998.6,784.2,985,882.8,1071)
```

# Convert it to a time series object.

```
rainfall.timeseries <- ts(rainfall,start = c(2012,1),frequency = 12)
```

# Print the timeseries data.

```
print(rainfall.timeseries)
```

# Give the chart file a name.

```
png(file = "rainfall.png")
```

# Plot a graph of the time series.

```
plot(rainfall.timeseries)
```

# Save the file.

```
dev.off()
```

Output:

When we execute the above code, it produces the following result and chart –

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
2012	799.0	1174.8	865.1	1334.6	635.4	918.5	685.5	998.6	784.2
	Oct	Nov	Dec						
2012	985.0	882.8	1071.0						

