Practical No 3   16/02/23
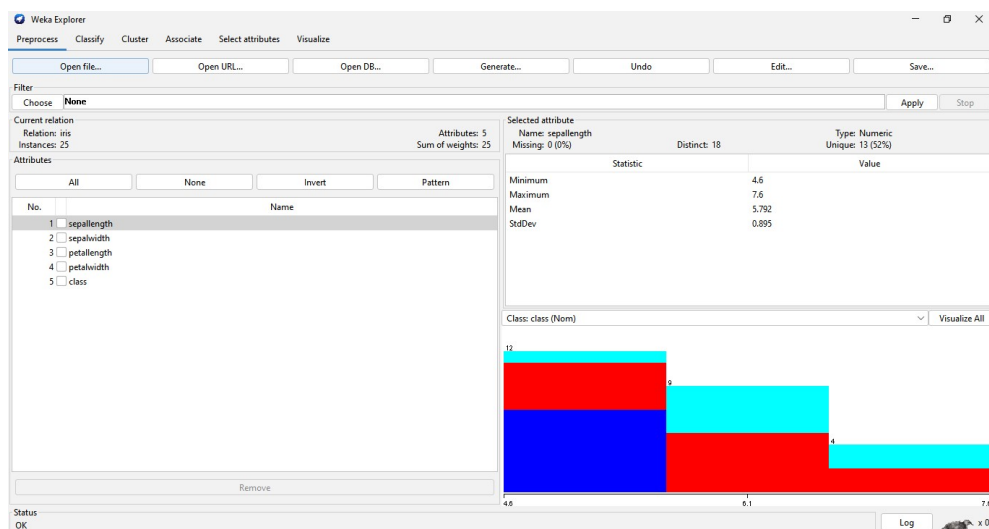
Aim: Pre-process the given data set and hence apply hierarchical algorithms and density based clustering techniques. Interpret the result.
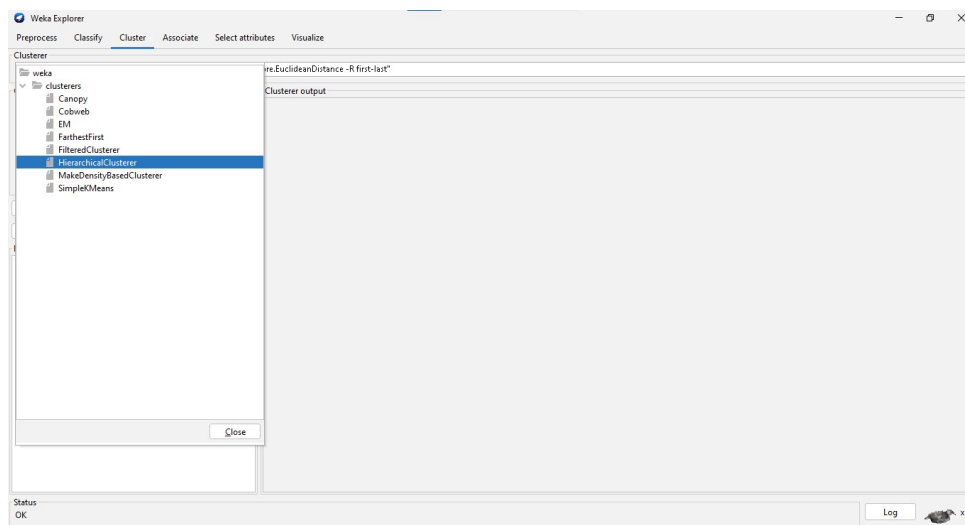
Steps:

1. Create excel file **iris.csv**

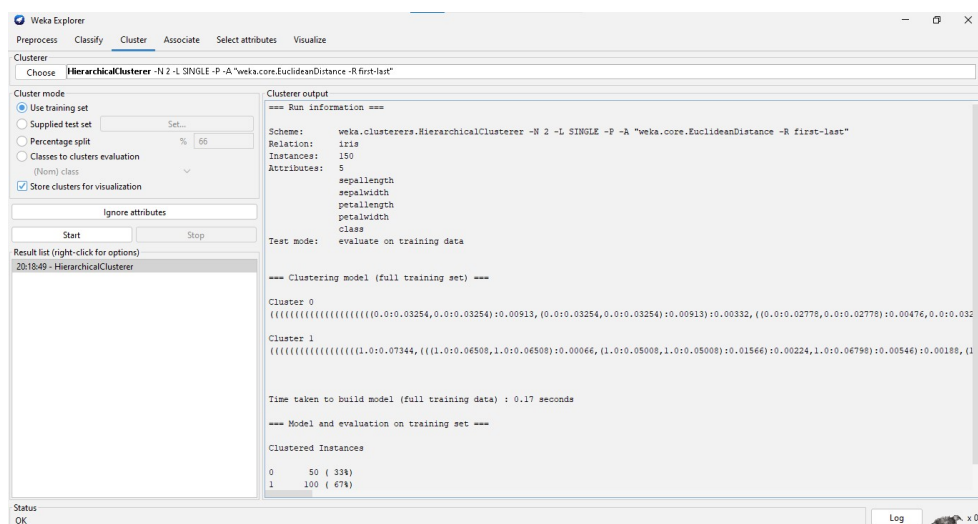|	A	B	C	D	E
	sepallength	sepalwidth	petallength	petalwidth	class
	5.1	3.5	1.4	0.2	Iris-setosa
	4.9	3	1.4	0.2	Iris-setosa
	4.7	3.2	1.3	0.2	Iris-setosa
	4.6	3.1	1.5	0.2	Iris-setosa
	5	3.6	1.4	0.2	Iris-setosa
	5.4	3.9	1.7	0.4	Iris-setosa
	4.6	3.4	1.4	0.3	Iris-setosa
	7	3.2	4.7	1.4	Iris-versicolor
	6.4	3.2	4.5	1.5	Iris-versicolor
	6.9	3.1	4.9	1.5	Iris-versicolor
	5.5	2.3	4	1.3	Iris-versicolor
	6.5	2.8	4.6	1.5	Iris-versicolor
	5.7	2.8	4.5	1.3	Iris-versicolor
	6.3	3.3	4.7	1.6	Iris-versicolor
	4.9	2.4	3.3	1	Iris-versicolor
	6.6	2.9	4.6	1.3	Iris-versicolor
	5.2	2.7	3.9	1.4	Iris-versicolor
	5	2	3.5	1	Iris-versicolor
	6.3	3.3	6	2.5	Iris-virginica
	5.8	2.7	5.1	1.9	Iris-virginica
	7.1	3	5.9	2.1	Iris-virginica
	6.3	2.9	5.6	1.8	Iris-virginica
	6.5	3	5.8	2.2	Iris-virginica
	7.6	3	6.6	2.1	Iris-virginica
	4.9	2.5	4.5	1.7	Iris-virginica

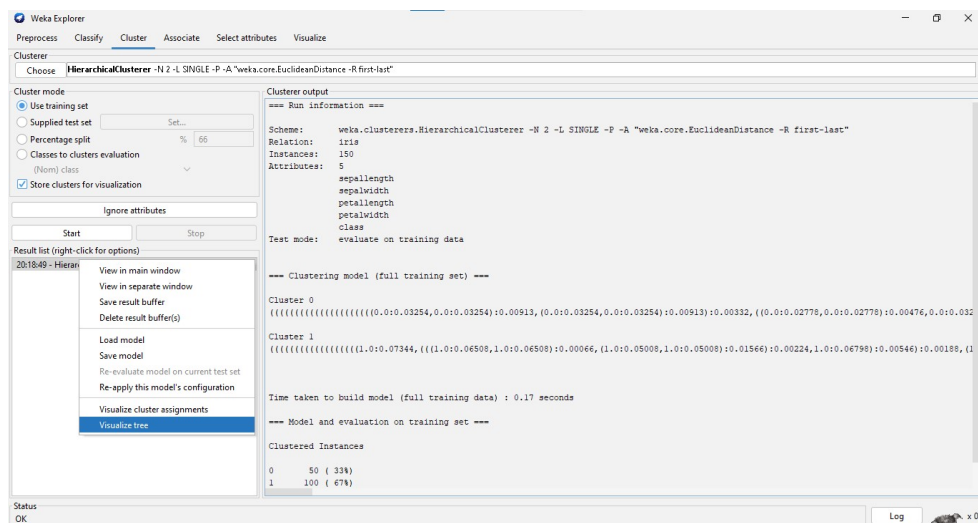2. Open Weka >click **Explorer >** click o**pen file >** select file **iris.csv** file.

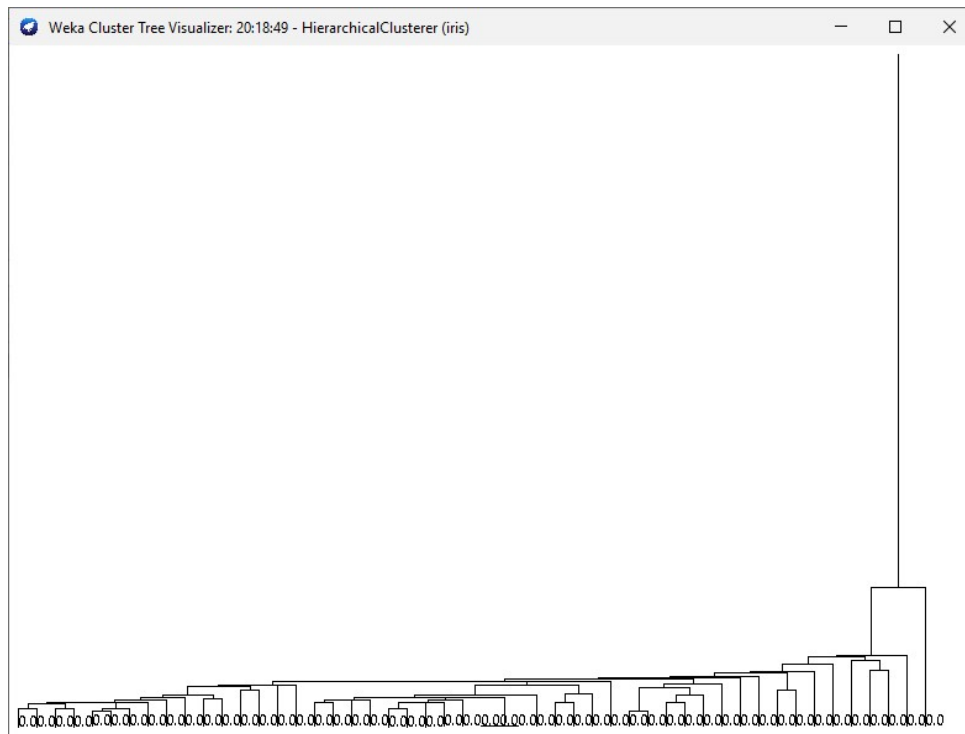3. Click on **Cluster** tab, click on **choose** >select **HierarchicalClusterer.**

4. Click on **Start**.You can see the Hierarchical clustering on the **Clustered output**.
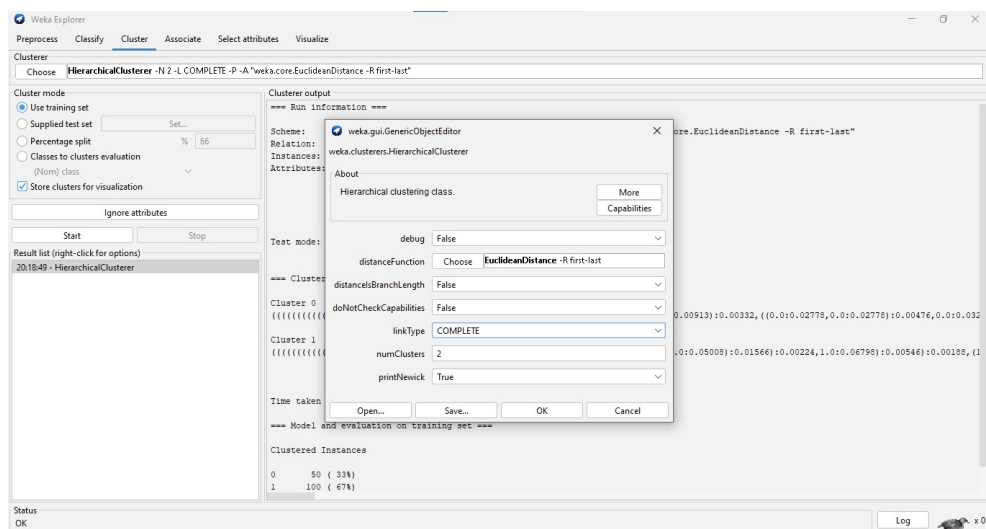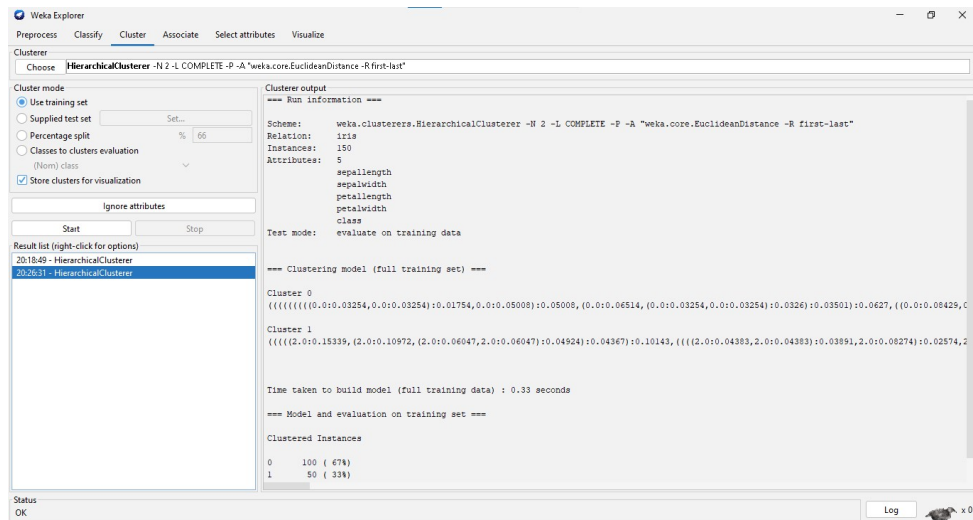

5. In **Result list ,**right click on result > select **visualize tree.**

6. Now click on cluster name ,a window will appear select **linktype** as complete and click on **ok.** Again click on start.

7. Right click on **result list** > select **visualize tree**