EX.NO:4A BUILD A CLASSIFIER - RUN DECISION TREE

AIM:

To construct decision tree for the dataset and classify it.

PROCEDURE:

- 1. Open Start -> Programs -> Accessories -> Notepad
- 2. Type the following training data set with the help of Notepadfor Weather Table.

@relation weather

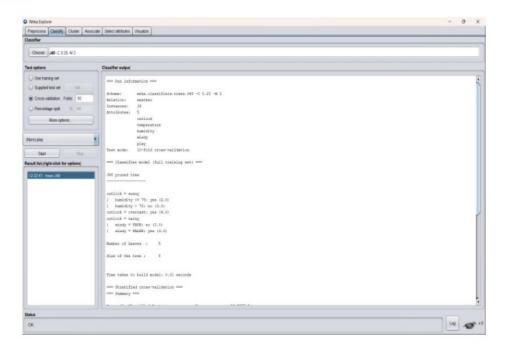
@attribute outlook {sunny, overcast, rainy}
@attribute temperature real
@attribute humidity real @attribute
windy {TRUE, FALSE}@attribute play
{yes, no}

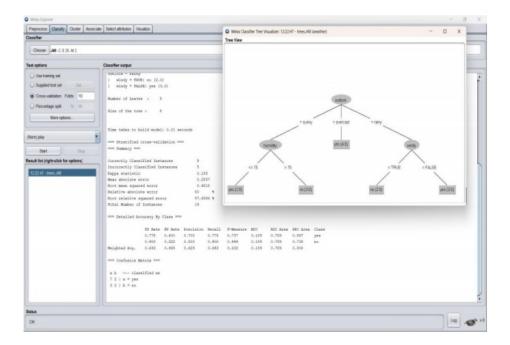
@data sunny,85,85,FALSE,no sunny,80,90,TRUE,no overcast,83,86,FALSE,yes rainy,70,96,FALSE,yes rainy,68,80,FALSE,yes rainy,65,70,TRUE,no overcast,64,65,TRUE,yes sunny,72,95,FALSE,no sunny,69,70,FALSE,yes rainy,75,80,FALSE,yes sunny,75,70,TRUE,yes overcast,72,90,TRUE,yes overcast,81,75,FALSE,yes rainy,71,91,TRUE,no

- After that the file is saved with .arff file format.
- 4. Minimize the arff file & then open Start -> Programs -> weka .
- 5.Click on weka-3-4, then Weka dialog box is displayed on the screen.
- 6.In that dialog box there are four modes, click on explorer.
- 7. Explorer shows many options. In that click on 'open file' and select the arff file.
- 8.Click on edit button which shows weather table on weka.

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OUTPUT:





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RESULT:	
Thus the decision tree for the data has constructed and classified successfully.	
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EX.NO:4B BUILD A NAÏVE BAYESIAN CLASSIFIER

AIM:

To illustrate the use of Naïve Bayesian Classifier.

PROCEDURE:

- 1.Open Start -> Programs -> Accessories -> Notepad
- 2. Type the following training data set with the help of Notepadfor Weather Table.

@relation weather

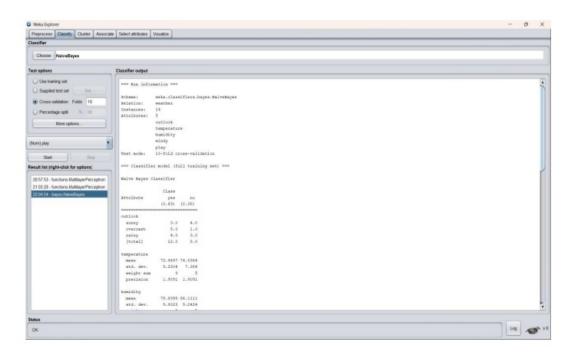
```
@attribute outlook {sunny, overcast, rainy}
@attribute temperature real
@attribute humidity real @attribute
windy {TRUE, FALSE}@attribute play
{yes, no}
```

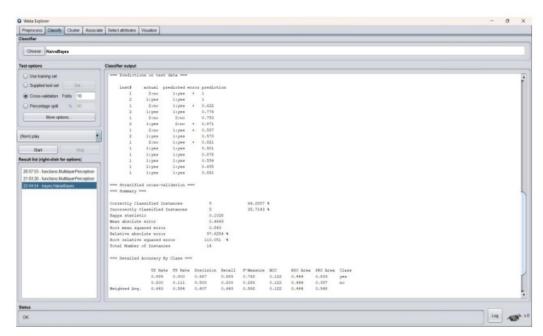
@data sunny,85,85,FALSE,no sunny,80,90,TRUE,no overcast,83,86,FALSE,yes rainy,70,96,FALSE,yes rainy,68,80,FALSE,yes rainy,65,70,TRUE,no overcast,64,65,TRUE,yes sunny,72,95,FALSE,no sunny,69,70,FALSE,yes rainy,75,80,FALSE,yes sunny,75,70,TRUE,yes overcast,72,90,TRUE,yes overcast,81,75,FALSE,yes rainy,71,91,TRUE,no

- 3. After that the file is saved with .arff file format.
- 4. Minimize the arff file & then open Start -> Programs -> weka .
- 5.Click on weka-3-4, then Weka dialog box is displayed on the screen.
- 6.In that dialog box there are four modes, click on explorer.
- 7. Explorer shows many options. In that click on 'open file' and select the arff file.
- 8. Click on edit button which shows weather table on weka.

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OUTPUT:





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RESULT:		
Thus the data using Naïve Bayesian has been executed successfully.		
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EX.NO:4C BUILD AN NN CLASSIFIER

AIM:

To construct NN classifier for weather data.

PROCEDURE:

- 1.Open Start -> Programs -> Accessories -> Notepad
- 2. Type the following training data set with the help of Notepadfor Weather Table.

@relation weather

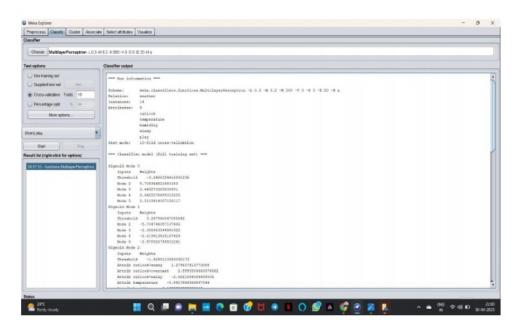
```
@attribute outlook {sunny, overcast, rainy}
@attribute temperature real
@attribute humidity real @attribute
windy {TRUE, FALSE}@attribute play
{yes, no}
```

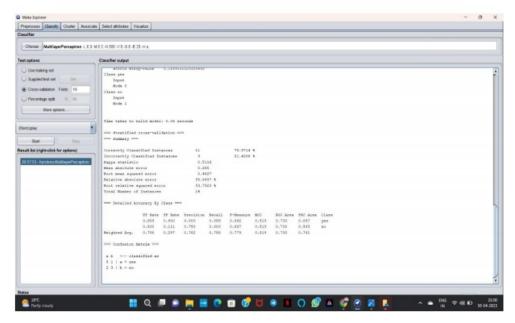
@data sunny,85,85,FALSE,no sunny,80,90,TRUE,no overcast,83,86,FALSE,yes rainy,70,96,FALSE,yes rainy,68,80,FALSE,yes rainy,65,70,TRUE,no overcast,64,65,TRUE,yes sunny,72,95,FALSE,no sunny,69,70,FALSE,yes rainy,75,80,FALSE,yes sunny,75,70,TRUE,yes overcast,72,90,TRUE,yes overcast,81,75,FALSE,yes rainy,71,91,TRUE,no

- 3. After that the file is saved with .arff file format.
- 4. Minimize the arff file & then open Start -> Programs -> weka .
- 5.Click on weka-3-4, then Weka dialog box is displayed on the screen.
- 6.In that dialog box there are four modes, click on explorer.
- 7. Explorer shows many options. In that click on 'open file' and select the arff file.
- 8.Click on edit button which shows weather table on weka.

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OUTPUT:





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RESULT:		
Thus the classification of data using NN classifier has been executed successfully.		
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