20-40, high, yes, excellent, no

G40,low,no,fair,yes

The session (1)	
Instructions: Finished output screens (1, 2, 3, 4 and 5) to be 1 and Activity 2 which should be completed in today's see	· · · · · · · · · · · · · · · · · · ·
Activity 1	
Finding Association Rules for Buying data.	
Description:	
In data mining, association rule learning is a popular an relations between variables in large databases. It can be discovered in databases using different measures of intercare used and they are also employed in many application a and Creation of Buying Table:	e described as analysing and presenting strong rule estingness. In market basket analysis association rule
Procedure:	
1) Open Start □ Programs □ Accessories □ Notepad	
2) Type the following training data set with the help of N	otepad for Buying Table.
@relation buying	
@attribute age {L20,20-40,G40}	
@attribute income {high,medium,low}	
@attribute stud {yes,no}	
@attribute creditrate {fair,excellent}	
@attribute buyscomp {yes,no}	
@data	
L20,high,no,fair,yes	
20-40,low,yes,fair,yes	
G40,medium,yes,fair,yes	
L20,low,no,fair,no	
G40,high,no,excellent,yes	
L20,low,yes,fair,yes	

L20,high,yes,excellent,yes
G40,high,no,fair,yes
L20,low,yes,excellent,no
G40,high,yes,excellent,no
20-40,medium,yes,excellent,yes
L20,medium,yes,fair,yes
G40,high,yes,excellent,yes
3) After that the file is saved with .arff file format.
4) Minimize the arff file and then open Start \square Programs \square weka-3-4.
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 buying table on weka.
Email 1 Screen shorts
Output the Training Data Set Buying Table and save the screen short of the viewer (Should be emailed later)
Procedure for Association Rules:
1) Open Start □ Programs □ Weka-3-4 □ Weka-3-4
2) Open explorer.
3) Click on open file and select buying.arff
4) Select Associate option on the top of the Menu bar.
5) Select Choose button and then click on Apriori Algorithm.
6) Click on Start button and output will be displayed on the right side of the window
Email 2 Screen shorts
Output that was displayed on the right side of the window should be saved (Emailed later)
Activity 2
Aim:
To Construct Decision Tree for Weather data and classify it.
To construct Decision Tree for Weather until this say, in

Classification & Prediction:

Classification is the process for finding a model that describes the data values and concepts for the

purpose of Prediction.

sunny,69,70,FALSE,yes

Decision Tree:

A decision Tree is a classification scheme to generate a tree consisting of root node, internal nodes and external nodes. Root nodes representing the attributes. Internal nodes are also the attributes. External nodes are the classes and each branch represents the values of the attributes. Decision Tree also contains set of rules for a given data set; there are two subsets in Decision Tree. One is a Training data set and second one is a Testing data set. Training data set is previously classified data.

g
Testing data set is newly generated data.
Creation of Weather Table:
Procedure:
1) Open Start Programs Accessories Notepad
2) Type the following training data set with the help of Notepad for Weather Table.
@relation weather
@attribute outlook {sunny, rainy, overcast}
@attribute temperature numeric
@attribute humidity numeric
@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

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 and then open Start \Box Programs \Box weka-3-4
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.
Email 3 Screen shorts
Output the Training Data Set \square Weather Table and save the screen short of the viewer (Should be emailed later)
Procedure for Decision Trees:
1) Open Start □ Programs □ Weka-3-4 □ Weka-3-4
2) Open explorer.
3) Click on open file and select weather.arff
4) Select Classifier option on the top of the Menu bar.
5) Select Choose button and click on Tree option.
6) Click on J48.
7) Click on Start button and output will be displayed on the right side of the window.
8) Select the result list and right click on result list and select Visualize Tree option.
9) Then Decision Tree will be displayed on new window
Email 4 and 5 Screen shorts

Output that was displayed and the decision tree on the right side of the window should be saved(Note 2 screen shorts expected here a viewer screen and a decision tree screen) (Emailed later)