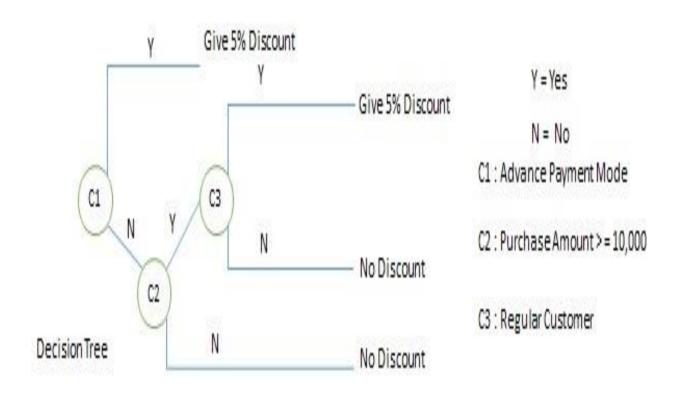
Decision Tree

A **Decision Tree** is a graphical representation used to make decisions or predictions. It is structured like a tree, where each node represents a question or decision based on a feature, each branch represents an outcome, and the leaf nodes represent the final result or decision. (a class label in classification or a numerical value in regression).



Decision Table

	It is a matrix containing row or columns for defining a problem and the actions.				
Components of a Decision Table:					
	Condition Stub – It is in the upper left quadrant which lists all the condition to be				
	checked.				
	Action Stub – It is in the lower left quadrant which outlines all the action to be carried				
	out to meet such condition.				
	Condition Entry – It is in upper right quadrant which provides answers to questions				

asked in condition stub quadrant.

☐ Action Entry – It is in lower right quadrant which indicates the appropriate action resulting from the answers to the conditions in the condition entry quadrant.

CONDITIONS	Rule 1	Rule 2	Rule 3	Rule 4
Advance payment made	Υ	N	N	N
Purchase amount = Rs 10,000/-	-	Υ	Υ	N
Regular Customer	-	Υ	N	-
ACTIONS				
Give 5% discount	X	X	-	-
Give no discount	-	-	X	X

- Y shows the existence of a condition.
- N represents the condition, which is not satisfied.
- A blank against action states it is to be ignored.
- X (or a check mark will do) against action states it is to be carried out.