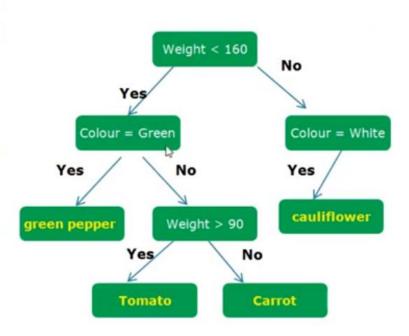
## **Decision Tree classification**

Weight in gm	Colour	Vegetable
61	Red	carrot
800	White	cauliflower
160	Green	cucumber
165	Green	green pepper
100	Red	Tomato
2000	Orange	pumpkin



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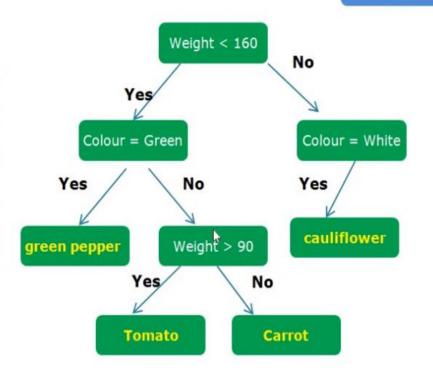


Vegetable	Colour	Weight in gm
carrot	Red	61
cauliflower	White	800
cucumber	Green	160
green pepper	Green	165
Tomato	Red	100
pumpkin	Orange	2000

## **Decision Tree classification**

#### Prediction

Weight = 80, Colour = Red



# **Decision Tree: Key Terms**

**Root Node:** The top-most decision node in a decision tree.

**Decision Node:** A tree node or parent node that splits into one ore more child nodes is called a decision node.

**Leaf or Terminal Node:** Bottom nodes that (generally speaking) don't split any further.

**Splitting**: Process of dividing a node into two or more child nodes.

**Pruning**: The opposite process of splitting. Removing the child nodes of a decision node is called pruning.

