Aim:

To write a program to demonstrate the working of the decision tree based ID3 algorithm. To use an appropriate dataset for building the decision tree and apply this knowledge to classify a new example.

Algorithm:

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- 1. Import all regulared Isbrasies (pandas, math, numpy).
- 2. Read data using read_csv() function.
- 3. Remove the target from the data I store the attributes in a seperate variable.
- 4. Create a class named node with 4 members Children; value,
 - "Isleaf" and "pred!
- 5. Define a function called entropy to find the entropy of the dataset.
- 6. Define a Junction named printTree to draw the decision
- 7. Finally, call the 103 print Tree Junction to obtain the decision trope
 - 8. END

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