**2. Decision tree :**

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| import pandas as pd import numpy as np from sklearn.model\_selection import train\_test\_split from sklearn.tree import DecisionTreeClassifier from sklearn.metrics import accuracy\_score from sklearn import tree   df = pd.read\_csv('Path\_to\_csv\_file')  df.head()   X=df.values[:,1:5] Y=df.values[:,0]  X\_train, X\_test, y\_train, y\_test = train\_test\_split(X,Y, test\_size = 0.3, random\_state = 100)  clf\_entropy = DecisionTreeClassifier(criterion="entropy",random\_state=100,max\_depth=3)  clf\_entropy.fit(X\_train, y\_train)  y\_pred = clf\_entropy.predict(X\_test)  y\_pred  print(accuracy\_score(y\_test,y\_pred)\*100) |

OUTPUT :

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| 100.0 |