Use an appropriate data set for building the decertor tree (DD3) and apply this knowledge to clarify a new sample import pandas as pd import matplot is bryplot as ptt. Skleain tree Simport Decodon Tree Clarifles export text, plot tree data = po. rad\_civ ("tener. csv") from Schlain preprotuting impost label Emoder encody = Labil Encody from col in date columns. data (col) = encoder, fit transpin (data (col)) = data drop (column 5 & play) y = date C'play ] clt = Decision Tree clariffy (criterion = 'entropy') elf. fit (x,y) print Cexport\_text (Clf, feature\_names = list(x, column) plt. Higure (Higgsize = (12, 8)) plot-tree CCH, teatur names = x. columns, class names = encoder classes, tolled = frue rounded strue, jont 1170 = 12, proportion stru p (t shows )

and the second s
sample = pd. Data Frame (C2,11,0,0)), column, z
('outlook', kemp', 'humldlity', 'windy 1)
prediction = of predict (rample)
print ("prodection for new eample ", encody, inven-
transform (Eprediction (0) J) (0)
(0)
Output:
pridiction for new cample: No
Outlook <= 0.00
clan: 4.
outlook > 0.50
humidity <= 0.50
outtook <= 1.50
windy <= 0.50
Clay 1
coindy > 0.50.
clay; 0 -> Answe
Outlook > 1.50.
closs: 6.
humidity > 0.00
windy <= 0.50.
dan : 3.
coindy > 0-10
temp <= 1.0
day 10
temp > 1.00
day 11/2 claw : 9.
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