id outlook temp humidity wind label
0 1 'Sunny' 'Hot' 'High' 'Weak' 'No'
1 2 'Sunny' 'Hot' 'High' 'Strong' 'No'
2 3 'Overcast' 'Hot' 'High' 'Weak' 'Yes'
3 4 'Rain' 'Mild' 'High' 'Weak' 'Yes'
4 5 'Rain' 'Cool' 'Normal' 'Weak' 'Yes'
5 6 'Rain' 'Cool' 'Normal' 'Strong' 'No'
6 7 'Overcast' 'Cool' 'Normal' 'Strong' 'Yes'
7 8 'Sunny' 'Mild' 'High' 'Weak' 'No'
8 9 'Sunny' 'Cool' 'Normal' 'Weak' 'Yes'
9 10 'Rain' 'Mild' 'Normal' 'Weak' 'Yes'
10 11 'Sunny' 'Mild' 'Normal' 'Strong' 'Yes'
11 12 'Overcast' 'Mild' 'High' 'Strong' 'Yes'
12 13 'Overcast' 'Hot' 'Normal' 'Weak' 'Yes'
13 14 'Rain' 'Mild' 'High' 'Strong' 'No'
List of Attributes: ['id', 'outlook', 'temp', 'humidity', 'wind', 'label']
Predicting Attributes: ['id', 'outlook', 'temp', 'humidity', 'wind']
---
id outlook temp humidity wind label
11 12 'Overcast' 'Mild' 'High' 'Strong' 'Yes'
12 13 'Overcast' 'Hot' 'Normal' 'Weak' 'Yes'
5 6 'Rain' 'Cool' 'Normal' 'Strong' 'No'
1 2 'Sunny' 'Hot' 'High' 'Strong' 'No'
9 10 'Rain' 'Mild' 'Normal' 'Weak' 'Yes'
4 5 'Rain' 'Cool' 'Normal' 'Weak' 'Yes'
6 7 'Overcast' 'Cool' 'Normal' 'Strong' 'Yes'
2 3 'Overcast' 'Hot' 'High' 'Weak' 'Yes'
---
id outlook temp humidity wind label
0 1 'Sunny' 'Hot' 'High' 'Weak' 'No'
3 4 'Rain' 'Mild' 'High' 'Weak' 'Yes'
7 8 'Sunny' 'Mild' 'High' 'Weak' 'No'
8 9 'Sunny' 'Cool' 'Normal' 'Weak' 'Yes'
10 11 'Sunny' 'Mild' 'Normal' 'Strong' 'Yes'
13 14 'Rain' 'Mild' 'High' 'Strong' 'No'
---
value count dict_values([{6: 1, 2: 1}])
counter:- Counter({6: 1, 2: 1})
value count dict_values([{6: 1, 2: 1}, {"'Rain'": 1, "'Sunny'": 1}])
counter:- Counter({"'Rain'": 1, "'Sunny'": 1})
value count dict_values([{6: 1, 2: 1}, {"'Rain'": 1, "'Sunny'": 1}, {"'Cool'": 1, "'Hot'": 1}])
counter:- Counter({"'Cool'": 1, "'Hot'": 1})
value count dict_values([{6: 1, 2: 1}, {"'Rain'": 1, "'Sunny'": 1}, {"'Cool'": 1, "'Hot'": 1}, {"'Normal'": 1,
"'High'": 1}])
counter:- Counter({"'Normal'": 1, "'High'": 1})
value count dict_values([{6: 1, 2: 1}, {"'Rain'": 1, "'Sunny'": 1}, {"'Cool'": 1, "'Hot'": 1}, {"'Normal'": 1,
"'High'": 1}, {"'Strong'": 2}])
counter:- Counter({"'Strong'": 2})
value count dict_values([{12: 1, 13: 1, 10: 1, 5: 1, 7: 1, 3: 1}])
counter:- Counter({12: 1, 13: 1, 10: 1, 5: 1, 7: 1, 3: 1})
value count dict_values([{12: 1, 13: 1, 10: 1, 5: 1, 7: 1, 3: 1}, {"'Overcast'": 4, "'Rain'": 2}])
counter:- Counter({"'Overcast'": 4, "'Rain'": 2})
value count dict_values([{12: 1, 13: 1, 10: 1, 5: 1, 7: 1, 3: 1}, {"'Overcast'": 4, "'Rain'": 2}, {"'Mild'": 2, "'Hot'":
2, "'Cool'": 2}])
counter:- Counter({"'Mild'": 2, "'Hot'": 2, "'Cool'": 2})
value count dict_values([{12: 1, 13: 1, 10: 1, 5: 1, 7: 1, 3: 1}, {"'Overcast'": 4, "'Rain'": 2}, {"'Mild'": 2, "'Hot'":
2, "'Cool'": 2}, {"'High'": 2, "'Normal'": 4}])
counter:- Counter({"'Normal'": 4, "'High'": 2})
value count dict_values([{12: 1, 13: 1, 10: 1, 5: 1, 7: 1, 3: 1}, {"'Overcast'": 4, "'Rain'": 2}, {"'Mild'": 2, "'Hot'":
2, "'Cool'": 2}, {"'High'": 2, "'Normal'": 4}, {"'Strong'": 2, "'Weak'": 4}])

```
counter:- Counter({"'Weak'": 4, "'Strong'": 2})
*****************************************
The Resultant table is :
{"'No'": {'humidity': {"'High'": 1, "'Normal'": 1},
'id': {2: 1, 6: 1},
'outlook': {"'Rain'": 1, "'Sunny'": 1},
'temp': {"'Cool'": 1, "'Hot'": 1},
'wind': {"'Strong'": 2}},
"'Yes'": {'humidity': {"'High'": 2, "'Normal'": 4},
'id': {3: 1, 5: 1, 7: 1, 10: 1, 12: 1, 13: 1},
'outlook': {"'Overcast'": 4, "'Rain'": 2},
'temp': {"'Cool'": 2, "'Hot'": 2, "'Mild'": 2},
'wind': {"'Strong'": 2, "'Weak'": 4}}}
{"'No'": 2, "'Yes'": 6}
print row tuple
{'humidity': "'High'",
'id': 1,
'label': "'No'",
'outlook': "'Sunny'",
'temp': "'Hot'",
'wind': "'Weak'"}
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([1, "'Sunny'", "'Hot'", "'High'", "'Weak'", "'No'"])
id label: 'No'
outlook label: 'No'
temp label: 'No'
humidity label: 'No'
wind label: 'No'
["'No'"]
[0.25]
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([1, "'Sunny'", "'Hot'", "'High'", "'Weak'", "'No'"])
id label: 'Yes'
outlook label: 'Yes'
temp label: 'Yes'
humidity label: 'Yes'
wind label: 'Yes'
["'No'", "'Yes'"]
[0.25, 0.4444444444444444]
'No' :::: 'Yes'
print row tuple
{'humidity': "'High'",
'id': 4,
'label': "'Yes'",
'outlook': "'Rain'",
'temp': "'Mild'",
'wind': "'Weak'"}
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([4, "'Rain'", "'Mild'", "'High'", "'Weak'", "'Yes'"])
id label: 'No'
outlook label: 'No'
temp label: 'No'
humidity label: 'No'
wind label: 'No'
["'No'"]
[0.5]
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([4, "'Rain'", "'Mild'", "'High'", "'Weak'", "'Yes'"])
id label: 'Yes'
outlook label: 'Yes'
```

temp label: 'Yes'
humidity label: 'Yes'
wind label: 'Yes'
["'No'", "'Yes'"]
[0.5, 0.14814814814814814]
'Yes' :::: 'No'
print row tuple
{'humidity': "'High'",
'id': 8,
'label': "'No'",
'outlook': "'Sunny'",
'temp': "'Mild'",
'wind': "'Weak'"}
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([8, "'Sunny'", "'Mild'", "'High'", "'Weak'", "'No'"])
id label: 'No'
outlook label: 'No'
temp label: 'No'
humidity label: 'No'
wind label: 'No'
["'No'"]
[0.5]
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([8, "'Sunny'", "'Mild'", "'High'", "'Weak'", "'No'"])
id label: 'Yes'
outlook label: 'Yes'
temp label: 'Yes'
humidity label: 'Yes'
wind label: 'Yes'
["'No'", "'Yes'"]
[0.5, 0.4444444444444444]
'No' :::: 'No'
'No' :::: 'No'
POSTERIORI OF: 'Yes' is: 0.4444444444444444
print row tuple
{'humidity': "'Normal'",
'id': 9,
'label': "'Yes'",
'outlook': "'Sunny'",
'temp': "'Cool'",
'wind': "'Weak'"}
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([9, "'Sunny'", "'Cool'", "'Normal'", "'Weak'", "'Yes'"])
id label: 'No'
outlook label: 'No'
temp label: 'No'
humidity label: 'No'
wind label: 'No'
["'No'"]
[0.25]
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([9, "'Sunny'", "'Cool'", "'Normal'", "'Weak'", "'Yes'"])
id label: 'Yes'
outlook label: 'Yes'
temp label: 'Yes'
humidity label: 'Yes'
wind label: 'Yes'
["'No'", "'Yes'"]
[0.25, 0.8888888888888888]
'Yes' :::: 'Yes'

'Yes' :::: 'Yes'
POSTERIORI OF: 'Yes' is: 0.8888888888888888
print row tuple
{'humidity': "'Normal'",
'id': 11,
'label': "'Yes'",
'outlook': "'Sunny'",
'temp': "'Mild'",
'wind': "'Strong'"}
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([11, "'Sunny'", "'Mild'", "'Normal'", "'Strong'", "'Yes'"])
id label: 'No'
outlook label: 'No'
temp label: 'No'
humidity label: 'No'
wind label: 'No'
["'No'"]
[0.5]
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([11, "'Sunny'", "'Mild'", "'Normal'", "'Strong'", "'Yes'"])
id label: 'Yes'
outlook label: 'Yes'
temp label: 'Yes'
humidity label: 'Yes'
wind label: 'Yes'
["'No'", "'Yes'"]
[0.5, 0.4444444444444444]
'Yes' :::: 'No'
print row tuple
{'humidity': "'High'",
'id': 14,
'label': "'No'",
'outlook': "'Rain'",
'temp': "'Mild'",
'wind': "'Strong'"}
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([14, "'Rain'", "'Mild'", "'High'", "'Strong'", "'No'"])
id label: 'No'
outlook label: 'No'
temp label: 'No'
humidity label: 'No'
wind label: 'No'
["'No'"]
[0.5]
RowTuple dict_keys(['id', 'outlook', 'temp', 'humidity', 'wind', 'label'])
RowValues dict_values([14, "'Rain'", "'Mild'", "'High'", "'Strong'", "'No'"])
id label: 'Yes'
outlook label: 'Yes'
temp label: 'Yes'
humidity label: 'Yes'
wind label: 'Yes'
["'No'", "'Yes'"]
[0.5, 0.07407407407407407]
'No' :::: 'No'
'No' :::: 'No'
POSTERIORI OF: 'Yes' is: 0.07407407407407407
Number of Correct Predictions : Number of Samples 3 : 6
Accuracy: 50.0