In [1]:
```
from sklearn.tree import DecisionTreeClassifier
```

In [4]:
```
import numpy as np
import pandas as pd
```

In [6]:
```
data = np.loadtxt("or_dataset_training.csv", delimiter=",")
data = pd.DataFrame(data)
data
```

Out[6]:

| | 0 | 1 | 2 |
|---|---|---|---|
| **0** | 0.0 | 0.0 | 0.0 |
| **1** | 0.0 | 1.0 | 1.0 |
| **2** | 1.0 | 0.0 | 1.0 |
| **3** | 1.0 | 1.0 | 1.0 |

In [8]:
```
x = data.iloc[0:, 0:2]
x = np.array(x)
x
```

Out[8]:
```
array([[0., 0.],
       [0., 1.],
       [1., 0.],
       [1., 1.]])
```

In [10]:
```
y = data.iloc[0:, 2:]
y = np.array(y)
y
```

Out[10]:
```
array([[0.],
       [1.],
       [1.],
       [1.]])
```

In [12]:
```
clf = DecisionTreeClassifier()
clf.fit(x, y)
```

Out[12]:
```
DecisionTreeClassifier()
```

In [13]:
```
from sklearn.tree import export_graphviz
```

In [24]:
```
dot_data = export_graphviz(clf, out_file=None,
                           feature_names=['X','Y'],
                           class_names=['0','1'], filled=True, rounded=True)
```

In [25]:
```
import pydotplus
from IPython.display import Image
```

In [26]:
```
graph = pydotplus.graph_from_dot_data(dot_data)
```

In [27]:
```
Image(graph.create_png())
```

Out[27]: