```
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
               1 2
Out[6]:
         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)
         array([[0., 0.],
Out[8]:
                [0., 1.],
                [1., 0.],
                [1., 1.]])
In [10]:
          y = data.iloc[0:, 2:]
          y = np.array(y)
         array([[0.],
Out[10]:
                [1.],
                [1.],
                [1.]])
In [12]:
          clf = DecisionTreeClassifier()
          clf.fit(x, y)
         DecisionTreeClassifier()
Out[12]:
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]:
                                X \le 0.5
                              gini = 0.375
                              samples = 4
                              value = [1, 3]
                                class = 1
                          True /
                                          False
                      Y \le 0.5
                                          gini = 0.0
                      gini = 0.5
                                        samples = 2
                    samples = 2
                                        value = [0, 2]
                    ∨alue = [1, 1]
                                          class = 1
                      class = 0
            gini = 0.0
                                gini = 0.0
          samples = 1
                              samples = 1
                              value = [0, 1]
          value = [1, 0]
            class = 0
                                class = 1
```