```
In [4]: x=[[0.,0.],[0.,1.],[1.,0.],[1.,1.]]
         y=[0,1,1,0]
         from sklearn.neural network import MLPClassifier
In [5]: clf = MLPClassifier(solver='sgd', activation='logistic', alpha=1e-5, random state
In [6]: clf.fit(x, y)
Out[6]: MLPClassifier(activation='logistic', alpha=1e-05, batch_size='auto',
                beta 1=0.9, beta 2=0.999, early stopping=False, epsilon=1e-08,
                hidden_layer_sizes=(3, 2), learning_rate='constant',
                learning rate init=0.001, max iter=10000, momentum=0.9,
                nesterovs momentum=True, power t=0.5, random state=1, shuffle=True,
                solver='sgd', tol=0.0001, validation fraction=0.1, verbose=False,
                warm start=False)
In [8]: clf.predict([[2., 2.], [-1., -2.]])
Out[8]: array([0, 1])
In [9]: clf.predict([[2., 2.], [-1., -2.], [2., 2.], [-1., -2.]])
Out[9]: array([0, 1, 0, 1])
In [10]: clf.predict([[2., 2.], [-1., -2.], [2., 2.], [-1., -1.]])
Out[10]: array([0, 1, 0, 1])
In [11]: clf.predict([[2., 2.], [2., 2.], [2., 2.], [-1., -1.]])
Out[11]: array([0, 0, 0, 1])
In [12]: | clf.coefs_[0]
Out[12]: array([[-0.18179433, 0.53310908, -1.0951864],
                [-0.43306442, -0.77391332, -0.89313476]])
In [13]: clf.intercepts [0]
Out[13]: array([-0.68736944, -0.28795345, -0.22617113])
In [ ]:
```