```
import numpy as np
from keras.models import Sequential
from keras.layers.core import Dense
training_data = np.array([[0,0],[0,1],[1,0],[1,1]], "float32")
target_data = np.array([[0],[1],[1],[0]], "float32")
model = Sequential()
model.add(Dense(16, input_dim=2, activation='relu'))
model.add(Dense(1, activation='sigmoid'))
model.compile(loss='mean_squared_error',
          optimizer='adam',
          metrics=['binary_accuracy'])
model.fit(training_data, target_data, epochs=600)
scores = model.evaluate(training_data, target_data)
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Epoch 386/600
  Epoch 387/600
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diff
                                  ary_accuracy
  Epoch 389/600
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  Epoch 397/600
  Epoch 398/600
  Epoch 399/600
```

Epoch 400/600

```
Epoch 401/600
Epoch 402/600
1/1 [============= ] - 0s 10ms/step - loss: 0.1235 - binary accura
Epoch 403/600
Epoch 404/600
Epoch 405/600
Epoch 406/600
Epoch 407/600
Epoch 408/600
Epoch 409/600
Epoch 410/600
Epoch 411/600
Epoch 412/600
Epoch 413/600
1/1 [============== ] - 0s 6ms/step - loss: 0.1192 - binary accurac
```

```
print("\n%s: %.2f%%" % (model.metrics_names[1], scores[1]*100))
print (model.predict(training_data).round())
```

```
binary_accuracy: 100.00%
```

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Show diff

[1.]

[0.]]

import matplotlib.pyplot as plt
plt.show()

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