```
import numpy as np
from sklearn.model_selection import train_test_split
from sklearn.metrics import accuracy_score, precision_score, recall_score, f1_score
from\ tensorflow.keras.models\ import\ Sequential
from tensorflow.keras.layers import Dense, SimpleRNN
from sklearn.datasets import make_classification
X, y = make_classification(n_samples=10000, n_features=20, n_classes=2, weights=[0.9, 0.1], random_state=42)
X train, X test, y train, y test = train test split(X, y, test size=0.2, random state=42)
model = Sequential([
  SimpleRNN(units=64, input_shape=(X_train.shape[1], 1)),
  Dense(1, activation='sigmoid')
1)
model.compile(optimizer='adam', loss='binary_crossentropy', metrics=['accuracy'])
X_train = X_train.reshape(X_train.shape[0], X_train.shape[1], 1)
X_test = X_test.reshape(X_test.shape[0], X_test.shape[1], 1)
model.fit(X_train, y_train, epochs=10, batch_size=32, validation_data=(X_test, y_test))
precision = precision_score(y_test, y_pred)
recall = recall_score(y_test, y_pred)
f1 = f1_score(y_test, y_pred)
print("Accuracy:", accuracy)
print("Precision:", precision)
print("Recall:", recall)
print("F1 Score:", f1)
Epoch 1/10
   Epoch 2/10
   Epoch 3/10
   Epoch 4/10
   Epoch 5/10
   Fnoch 6/10
   Epoch 7/10
   250/250 [===
          Epoch 8/10
   250/250 [==
              Epoch 9/10
   250/250 [==
            Epoch 10/10
   250/250 [=============] - 2s 7ms/step - loss: 0.1552 - accuracy: 0.9408 - val loss: 0.1328 - val accuracy: 0.9465
   -----
   NameError
                           Traceback (most recent call last)
   <ipython-input-1-cf09217942c6> in <cell line: 33>()
     31
     32
   ---> 33 precision = precision_score(y_test, y_pred)
     34 recall = recall_score(y_test, y_pred)
      35 f1 = f1_score(y_test, y_pred)
  NameError: name 'y_pred' is not defined
  4
```