```
In [3]: from scipy.spatial import distance
        def euc(a,b):
            return distance.euclidean(a,b)
        class ScrappyKNN():
            def fit(self, X train, y train):
                self.X train = X train
                self.y train = y train
            def predict(self, X test):
                predictions = []
                for row in X test:
                    label = self.closest(row)
                     predictions.append(label)
                 return predictions
            def closest(self,row):
                best dist = euc(row, self.X train[0])
                best index = 0
                for i in range(1,len(self.X train)):
                    dist = euc(row, self.X train[i])
                    if dist < best dist:</pre>
                         best dist = dist
                         best index = i
                 return self.y train[best index]
        from sklearn import datasets
        iris = datasets.load iris()
        X = iris.data
        y = iris.target
        from sklearn.cross_validation import train_test_split
```

```
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = .
5)

#from sklearn.neighbors import KNeighborsClassifier
my_classifier = ScrappyKNN()

my_classifier.fit(X_train, y_train)

predictions = my_classifier.predict(X_test)

from sklearn.metrics import accuracy_score
print(accuracy_score(y_test,predictions))

0.96
```