In[8]: from skleam. model_selection import train_test_split.

X-train, X-test, y-train, y-test = train-test_split(x, y, test_size=0.3)

```
From sklearn-neighbours import KNeighbors Classifier
 In[9]:
           model = KNeighbons Classifier (h-neighbons = 5)
           model . fit (x-train, y-train)
 In[10]:
             x-pried (model priedict (x-test))
           from sklearn-metrices import accuracy-score.
 In[11] :
            print (accuracy-score (y-pred, y-test). round (2) *100)
            96.0
 In[12]:
            Score = []
            k-папре = папре (1, 31)
             for k in k-range:
                 model = Kneighbors Classifier (n-heighbors = k)
                 model . fit (x-train, y-train)
                 y-paed = model-paedict (x-test)
                 score append (accuracy-score (y-pried, y-test) round (2)*100)
In[13]:
           k in k-range:
        fon
              print (k, 1:) score [k-1]
             1: 96.0
             2 : 93.0
            29:89.0
            30:91.0
```

Teacher's Signature

In[14]: from matplotlib import pyplot as plt. 1. matplotlib inline. In[15]: plt.plot (k_range, Score)

plt.xlabel ('Neighbors')

plt.ylabel ('Accuracy') plt.show()

Weighbone.