Write a program to implement k-Nearest Neighbors algorithm to classify the iris data set. Print both correct and wrong predictions. Java/Python ML library classes can be used for this problem.

Program8.py

```
from sklearn.datasets import load_iris
from sklearn.neighbors import KNeighborsClassifier
from sklearn.model_selection import train_test_split
import matplotlib.pyplot as plt
iris_dataset=load_iris()
X_train, X_test, y_train, y_test = train_test_split(iris_dataset["data"],
iris_dataset
["target"], random_state=0)
kn = KNeighborsClassifier()
kn.fit(X_train, y_train)
prediction = kn.predict(X_test)
print("ACCURACY:"+ str(kn.score(X_test, y_test)))
plt.plot(X_test,y_test,'ro')
plt.plot(X_test,prediction,'b+')
```

**OUTPUT**

ACCURACY:0.9736842105263158