Jobsheet KNN

```
import pandas as pd
  import numpy as np
   filename = 'lulus1.csv'
   names = ['ipk', 'pelatihan', 'prestasi', 'forum', 'organisasi', 'lulus cepat']
   predikat = pd.read_csv(filename, names=names)
   predikat
2.
   predikat.head()
3.
   predikat.info()
4.
   x = predikat.drop(["lulus cepat"], axis=1)
   x.head()
5.
   y = predikat["lulus cepat"]
   y.head()
6.
   from sklearn.model selection import train test split
  x_train, x_test, y_train, y_test = train_test_split(x,y,test_size=0.20)
   from sklearn.preprocessing import StandardScaler
   scaler = StandardScaler()
   scaler.fit(x_train)
   x train = scaler.transform(x train)
   x test = scaler.transform(x test)
7.
  from sklearn.neighbors import KNeighborsClassifier
   knn = KNeighborsClassifier(n_neighbors=3)
   knn.fit(x_train, y_train)
8.
```

```
y_pred = knn.predict(x_test)
y_pred

9.
knn.predict_proba(x_test)

10.
from sklearn.metrics import classification_report, confusion_matrix

print(confusion_matrix(y_test,y_pred))

11.
print(classification_report(y_test,y_pred))

12.
```