```
import numpy as np
import pandas as pd
data = pd.read_csv('./diabetes.csv')
data.head()
#Check for null or missing values
data.isnull().sum()
#Replace zero values with mean values
for column in data.columns[1:-3]:
  data[column].replace(0, np.NaN, inplace = True)
  data[column].fillna(round(data[column].mean(skipna=True)), inplace = True)
data.head(10)
X = data.iloc[:, :8] #Features
Y = data.iloc[:, 8:] #Predictor
#Perform Spliting
from sklearn.model_selection import train_test_split
X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.2, random_state=0)
#KNN
from sklearn.neighbors import KNeighborsClassifier
knn = KNeighborsClassifier()
knn_fit = knn.fit(X_train, Y_train.values.ravel())
knn_pred = knn_fit.predict(X_test)
from sklearn.metrics import confusion_matrix, precision_score, recall_score, f1_score,
accuracy_score
```

```
print("Confusion Matrix")
print(confusion_matrix(Y_test, knn_pred))
print("Accuracy Score:", accuracy_score(Y_test, knn_pred))
print("Reacal Score:", recall_score(Y_test, knn_pred))
print("F1 Score:", f1_score(Y_test, knn_pred))
print("Precision Score:",precision_score(Y_test, knn_pred))
```