

```
import pandas as pd  
dataset=pd.read_csv("/content/diabetes_2.csv")  
dataset.head()
```

```
features_col=['Glucose','BloodPressure','Insulin','BMI','DiabetesPedigreeFunction','Age']
x=dataset[features_col]
y=dataset['Outcome']
```

```
#train-Test Split  
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=16)
```

```
#standard scalar
from sklearn.preprocessing import StandardScaler
sc=StandardScaler()
x_train=sc.fit_transform(x_train)
x_test=sc.fit_transform(x_test)
```

```
#build the lLogistic Regression model  
from sklearn.linear_model import LogisticRegression
```

```
model=LogisticRegression(max_iter=1000)
```

```
model.fit(x_train,y_train)
```

```
#efficiency or evulation parameter  
from sklearn import metrics
```

```
confusion_matrix=metrics.confusion_matrix(y_train,y_pred)
confusion_matrix

array([[353,  45],
       [ 94, 122]])
```

```
#HOMEWORK
```

```
#work over designing (mathematical) model of logistic
#regression for multiclass classification
```