























PYTHON CODE: # Fitting classifier to the Training set from sklearn.neighbors import KNeighborsClassifier classifier = KNeighborsClassifier(n_neighbors=5, metric='minkowski', p=2) classifier.fit(X_train,y_train) # Predicting the Test set results y_pred = classifier.predict(X_test) # Making the Confusion Matrix from sklearn.metrics import confusion_matrix cm = confusion_matrix(y_test, y_pred) cm

```
VISUALIZING RESULTS
                                                                           plt.title('Classifier (Test set)')
X_{set}, y_{set} = X_{train}, y_{train}
                                                                          plt.xlabel('Age')
plt.ylabel('Estimated Salary')
X1, X2 = np. meshgrid(np. arange(start = X_set[:, 0]. min() - 1,
                                                                           pl t. l egend()
stop = X_set[:, 0].max() + 1, step = 0.01),
                                                                          pl t. show()
                     np.arange(start = X_set[:, 1].min() - 1,
stop = X_set[:, 1].max() + 1, step = 0.01))
                                                                                         Classifier (Training set)
plt.contourf(X1, X2, classifier.predict(np.array([X1.ravel(),
X2. ravel ()]). T). reshape(X1. shape),
             alpha = 0.75, cmap = ListedColormap(('pink',
                                                                         2
'green')))
                                                                     Estimated Salary
plt.xlim(X1.min(), X1.max())
plt.ylim(X2.min(), X2.max())
                                                                         0
for i, j in enumerate(np.unique(y_set)):
                                                                        -1
    plt.scatter(X_set[y_set == j, 0], X_set[y_set == j, 1],
                 c = ListedColormap(('r', 'green'))(i), label = j)
                                                                        -2
                                                                                                  Age
```



