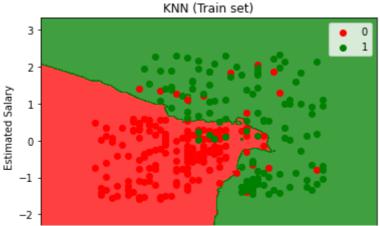
```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
dataset = pd.read_csv("/content/drive/MyDrive/DataSet/Social_Network_Ads.csv")
X = dataset.iloc[:, [2, 3]].values
y = dataset.iloc[:, 4].values
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.25, random_state =
from sklearn.preprocessing import StandardScaler
sc_X = StandardScaler()
X_train = sc_X.fit_transform(X_train)
X_test = sc_X.transform(X_test)
from sklearn.neighbors import KNeighborsClassifier
classifier = KNeighborsClassifier(n_neighbors=5, metric='minkowski', p=2)
classifier.fit(X_train, y_train)
     KNeighborsClassifier()
y_pred = classifier.predict(X_test)
from sklearn.metrics import confusion_matrix
cm = confusion_matrix(y_test, y_pred)
# Visualising the Training set results
from matplotlib.colors import ListedColormap
X_set, y_set = X_train, y_train
X1, X2 = np.meshgrid (np.arange (start = X \text{ set}[:, 0].min() - 1, stop = X \text{ set}[:, 0].max() +
 np.arange (start = X_set[:, 1].min() - 1, stop = X_set[:, 1].max() + 1, step = 0.01))
plt.contourf(X1, X2, classifier.predict(np.array([X1.ravel(), X2.ravel()]).T).reshape(X1.s
             alpha = 0.75, cmap = ListedColormap(('red', 'green')))
plt.xlim(X1.min(), X1.max())
plt.ylim(X2.min(), X2.max())
for i, j in enumerate(np.unique(y_set)):
plt.scatter(X_set[y_set == j, 0], X_set[y_set == j, 1],c = ListedColormap(('red', 'green')
plt.title ('KNN (Train set)')
plt.xlabel ('Age')
plt.ylabel ('Estimated Salary')
plt.legend ()
 \Box
```

c argument looks like a single numeric RGB or RGBA sequence, which should be avoide *c* argument looks like a single numeric RGB or RGBA sequence, which should be avoide <matplotlib.legend.Legend at 0x7f79dd250110>



```
# visualising the Test set results
from matplotlib.colors import ListedColormap
X_set, y_set = X_test, y_test
X1, X2 = np.meshgrid (np.arange(start = X_set[:, 0].min() - 1, stop = X_set[:, 0].max() + 1)
  np.arange(start = X_set[:, 1].min() - 1, stop = X_set[:, 1].max() + 1, step = 0.01))
plt.contourf(X1, X2, classifier.predict (np.array([X1.ravel(), X2.ravel()]).T).reshape(X1.
             alpha = 0.75, cmap = ListedColormap(('red', 'green')))
plt.xlim(X1.min(), X1.max())
plt.ylim(X2.min(), X2.max())
for i, j in enumerate(np.unique(y_set)):
plt.scatter (X_set[y_set == j, 0], X_set[y_set == j, 1],c = ListedColormap(('red', 'green'
plt.title ('KNN (Test set)')
plt.xlabel ('Age')
plt.ylabel ('Estimated Salary')
plt.legend ()
plt.show ()
```

c argument looks like a single numeric RGB or RGBA sequence, which should be avoide *c* argument looks like a single numeric RGB or RGBA sequence, which should be avoide

