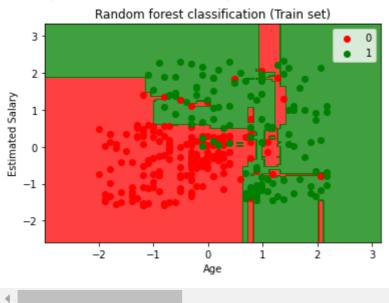
```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
dataset = pd.read_csv("/content/drive/MyDrive/DataSet/Social_Network_Ads.csv")
X = dataset.iloc[:, [2, 3]].values
y = dataset.iloc[:, 4].values
dataset.plot()
     <matplotlib.axes._subplots.AxesSubplot at 0x7fd48d5cde50>
      1.4
      12
      1.0
                                          User ID
      0.8
                                          EstimatedSalary
                                          Purchased
      0.6
      0.4
      0.2
      0.0
                         150
               50
                    100
                               200
                                    250
                                         300
                                              350
                                                   400
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.ensemble import RandomForestClassifier
classifier = RandomForestClassifier(n_estimators=10, criterion='entropy', random_state=0)
classifier.fit(X_train, y_train)
y_pred = classifier.predict(X_test)
from sklearn.metrics import confusion matrix
cm = confusion_matrix(y_test, y_pred)
from matplotlib.colors import ListedColormap
X set, y set = X train, y train
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
plt.contourf(X1, X2, classifier.predict(np.array([X1.ravel(), X2.ravel()]).T).reshape(X1.s
```

\*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



```
# 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
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'))(i), label = j)
plt.title('Random forest classification (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

