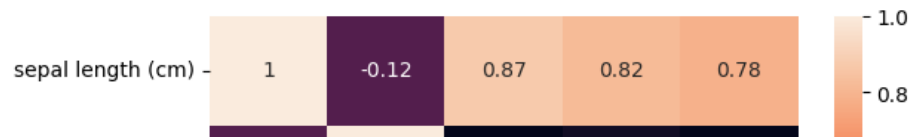


```
#step-3 visualising correlation & checking assumptions of Naive bayes
import matplotlib.pyplot as plt
import seaborn as sns
dataplot = sns.heatmap(iris_dataframe.corr(), annot=True)
plt.show()
```



#step-4 split dataset

```
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=0 )
```

#step-5 fit the model

```
from sklearn.naive_bayes import GaussianNB
NB = GaussianNB()
NB.fit(X_train, y_train)
```

▼ GaussianNB
GaussianNB()

#step-6 Evaluate the model

```
import matplotlib.pyplot as plt
Y_pred = NB.predict(X_test)
from sklearn.metrics import confusion_matrix
cm = confusion_matrix(y_test, Y_pred)
df_cm = pd.DataFrame(cm, columns=np.unique(y_test), index = np.unique(y_test))
df_cm.index.name = 'Actual'
df_cm.columns.name = 'Predicted'
sns.heatmap(df_cm, annot=True) #font size
plt.show()
```

