EXPERIMENT 1

Aim :

To demonstrate Confusion Matrix using python

Program :

import numpy as np

from sklearn.metrics import confusion\_matrix

import seaborn as sns

import matplotlib.pyplot as plt

actual=np.array(['Dog','Dog','Dog','Not Dog','Dog','Not Dog','Dog','Dog','Not Dog','Not Dog'])

predicted=np.array(['Dog','Not Dog','Dog','Not Dog','Dog','Dog','Dog','Dog','Not Dog','Not Dog'])

cm=confusion\_matrix(actual,predicted)

sns.heatmap(cm,annot=True,fmt='g',xticklabels=['Dog','Not Dog'], yticklabels=['Dog','Not Dog'], cmap='pink')

plt.ylabel("Prediction",fontsize=13)

plt.xlabel("Actual",fontsize=13)

plt.title("Confusion Matrix",fontsize=17)

plt.show()

Output :

