Classify the email using the binary classification method. Email Spam detection has two states:

a) Normal State – Not Spam b) Abnormal State – Spam. Use Support Vector Machine for classification. Analyze their performance.

```
In [ ]:
        import pandas as pd
        import numpy as np
        import matplotlib.pyplot as plt
        import seaborn as sns
In [ ]: df = pd.read_csv("emails.csv")
In [ ]: df.head()
In [ ]: | df.info()
In [ ]: df.isnull().sum()
In [ ]: x = df.iloc[:, 1:-1].values
        y = df.iloc[:, -1].values
In [ ]: from sklearn.model selection import train test split
        x_train, x_test, y_train, y_test = train_test_split(x,y,test_size = 0.3,r
In []: from sklearn.preprocessing import StandardScaler
        sc_X = StandardScaler()
        x_train = sc_X.fit_transform(x_train)
        x_test = sc_X.fit_transform(x_test)
In []: from sklearn.svm import SVC
        sc = SVC()
        sc.fit(x_train, y_train)
In [ ]: y_pred2 = sc.predict(x_test)
In []: from sklearn.metrics import accuracy_score, classification_report, confus
        print(classification_report(y_test, y_pred2))
```