```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import warnings
warnings.filterwarnings(action='ignore')

data = pd.read_csv('data_cleaned.csv')
data.head()
```

```
   Survived   Age     Fare  Pclass_1  Pclass_2  Pclass_3
Sex_female  \
0         0  22.0   7.2500         0         0         1           0

1         1  38.0  71.2833         1         0         0           1

2         1  26.0   7.9250         0         0         1           1

3         1  35.0  53.1000         1         0         0           1

4         0  35.0   8.0500         0         0         1           0


   Sex_male  SibSp_0  SibSp_1  ...  Parch_0  Parch_1  Parch_2  Parch_3
\
0         1        0        1  ...        1        0        0        0

1         0        0        1  ...        1        0        0        0

2         0        1        0  ...        1        0        0        0

3         0        0        1  ...        1        0        0        0

4         1        1        0  ...        1        0        0        0


   Parch_4  Parch_5  Parch_6  Embarked_C  Embarked_Q  Embarked_S
0        0        0        0           0           0           1
1        0        0        0           1           0           0
2        0        0        0           0           0           1
3        0        0        0           0           0           1
4        0        0        0           0           0           1

[5 rows x 25 columns]
```

```
#seperating independent and dependent variables
x = data.drop(['Survived'], axis=1)
y = data['Survived']
x.shape, y.shape
```

```
((891, 24), (891,))
```

```
# Importing the train test split function
from sklearn.model_selection import train_test_split
train_x,test_x,train_y,test_y = train_test_split(x,y, random_state =
10)

from sklearn.svm import SVC
svc=SVC()
svc.fit(train_x,train_y)

train_predict=svc.predict(train_x)
k=svc.score(test_x,test_y)
print("Training Score",k)

Training Score 0.726457399103139

test_predict=svc.predict(test_x)
s=svc.score(test_x,test_y)
print("Test Score",s)

Test Score 0.726457399103139
```