import matplotlib.pyplot as plt import numpy as np import pandas as pd %matplotlib inline

```
from sklearn.datasets import load_breast_cancer cancer=load_breast_cancer() cancer.keys()
```

print(cancer['DESCR'])



```
cancer.data
cancer.feature names
df=pd.DataFrame(cancer['data'],columns=cancer['feature names'])
df.head(10)
df.tail(10)
df.shape
from sklearn.preprocessing import StandardScaler
Scaler=StandardScaler()
Scaler.fit(df)
Scaled_data=Scaler.transform(df)
```



```
Scaled data
from sklearn.decomposition import PCA
pca=PCA(n_components=2)
pca.fit(Scaled data)
x pca=pca.transform(Scaled data)
Scaled data.shape
x pca.shape
Scaled data
x_pca
plt.figure(figsize=(8,6))
plt.scatter(Scaled data[:,0],Scaled data[:,1],c=cancer['target'])
```





