



```
from sklearn.decomposition import PCA
```

Method to find the variance ratio
for each component/feature

```
pca = PCA()  
temp_pca = pca.fit_transform(x)  
evr = pca.explained_variance_ratio_
```

```
plt.figure(figsize=(10, 6))  
plt.plot(range(1, len(evr) + 1), evr, marker='o')  
plt.title('Explained Variance Ratio')  
plt.xlabel('Number of Components')  
plt.ylabel('Explained Variance Ratio')  
plt.show()
```

Attribute to assign the number of
components we want

```
pca = PCA(n_components = num_val)
```

```
x_pca = pca.fit_transform(x)
```

Numeric values of
optimal number of
components