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

```
# Load datasets
transactions_df = pd.read_csv('Transactions.csv')
products_df = pd.read_csv('Products.csv')
customers_df = pd.read_csv('Customers.csv')

```

```
#merging datasets for analysis
merged_df = transactions_df.merge(products_df, on="ProductID").merge
(customers_df, on="CustomerID")

```

```
from sklearn.cluster import KMeans
from sklearn.metrics import davies_bouldin_score, silhouette_score
```