

```
In [4]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
import warnings
warnings.filterwarnings("ignore")

In [6]: data = pd.read_csv("Mail_Customers.csv")
data.head()
```

```
Out[6]:
```

	CustomerID	Gender	Age	Annual Income (k\$)	Spending Score (1-100)
0	1	Male	19	15	39
1	2	Male	21	15	81
2	3	Female	20	16	6
3	4	Female	23	16	77
4	5	Female	31	17	40

```
In [8]: data.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 280 entries, 0 to 279
Data columns (total 5 columns):
 #   Column                Non-Null Count  Dtype  
---  --
 0   CustomerID            280 non-null   int64  
 1   Gender                280 non-null   object  
 2   Age                   280 non-null   int64  
 3   Annual Income (k$)    280 non-null   int64  
 4   Spending Score (1-100) 280 non-null   int64  
dtypes: int64(4), object(1)
memory usage: 7.9+ KB

In [10]: #CustomerID does not matter in segmentation , so lets drop the column
data = data.drop(columns = 'CustomerID')
data.head()
```

```
Out[10]:
```

	Gender	Age	Annual Income (k\$)	Spending Score (1-100)
0	Male	19	15	39
1	Male	21	15	81
2	Female	20	16	6
3	Female	23	16	77
4	Female	31	17	40

