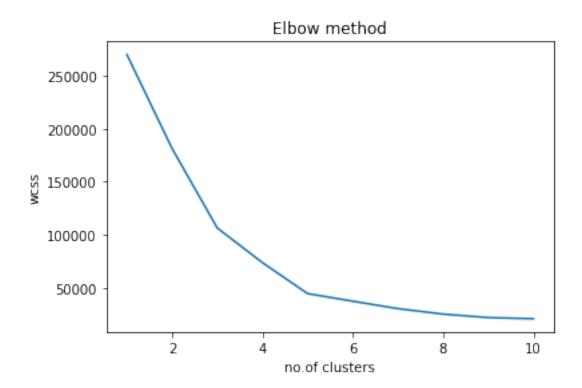
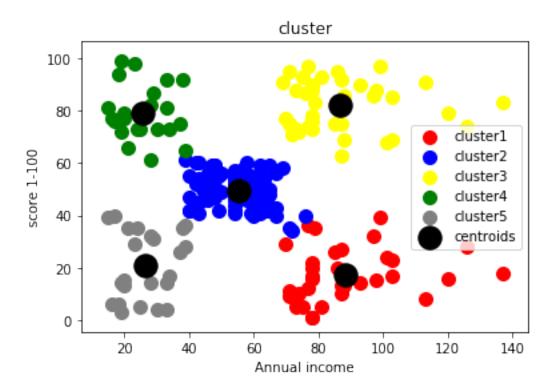
K-Means

September 27, 2018

```
In [15]: import pandas as pd
         import matplotlib.pyplot as plt
         import numpy as np
In [16]: dataset = pd.read_csv('/media/coea/A4F698A8F6987BEC/A-Z/K_Means/K_Means/Mall_Customers.
         x = dataset.iloc[:,[3,4]].values
In [17]: from sklearn.cluster import KMeans
In [18]: wcss = []
         for i in range(1,11):
             kmeans = KMeans(n_clusters=i,init='k-means++',max_iter=300,n_init=10,random_state=0
             kmeans.fit(x)
             wcss.append(kmeans.inertia_)
         plt.plot(range(1,11),wcss)
         plt.title('Elbow method')
         plt.xlabel('no.of clusters')
         plt.ylabel('wcss')
         plt.show()
```





In [21]:

In []: