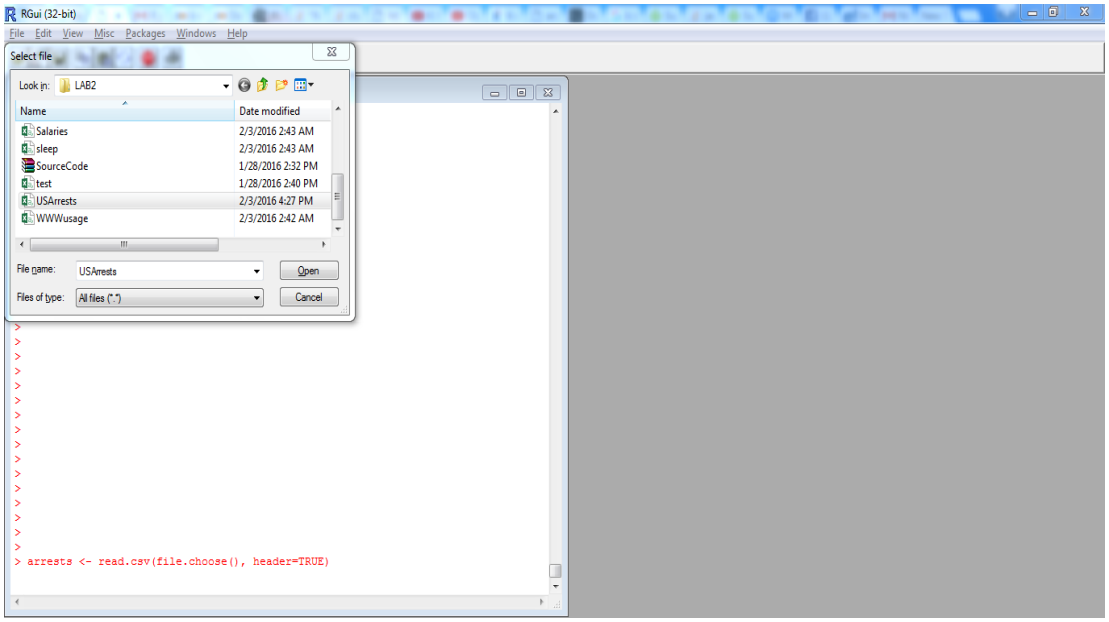
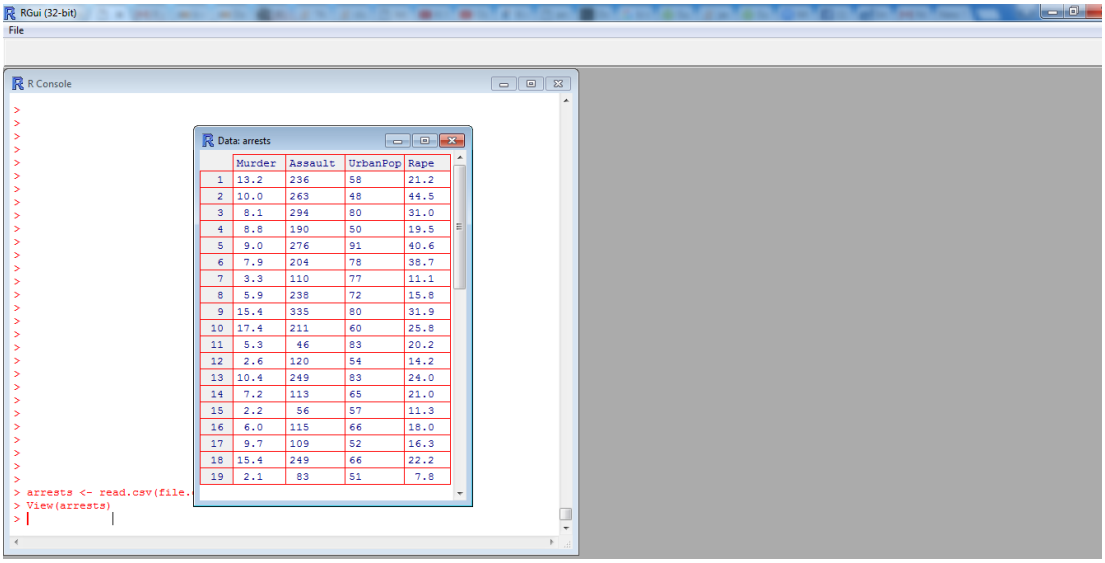
K-means clustering using R

K-means clustering algorithm is done on data collected on US types of attacks like Murder, Assault and Rape. Below are the steps to do k-means clustering on the data and screenshots of the outputs.

1. **Choosing csv file using file.choose() function**

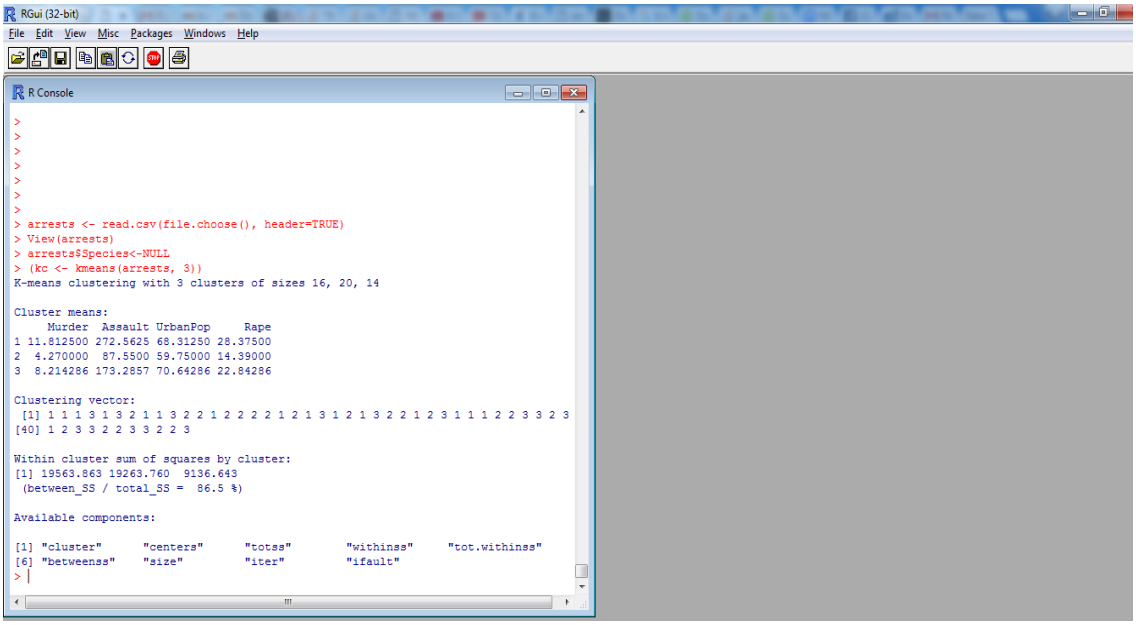


2. **Viewing the csv file**



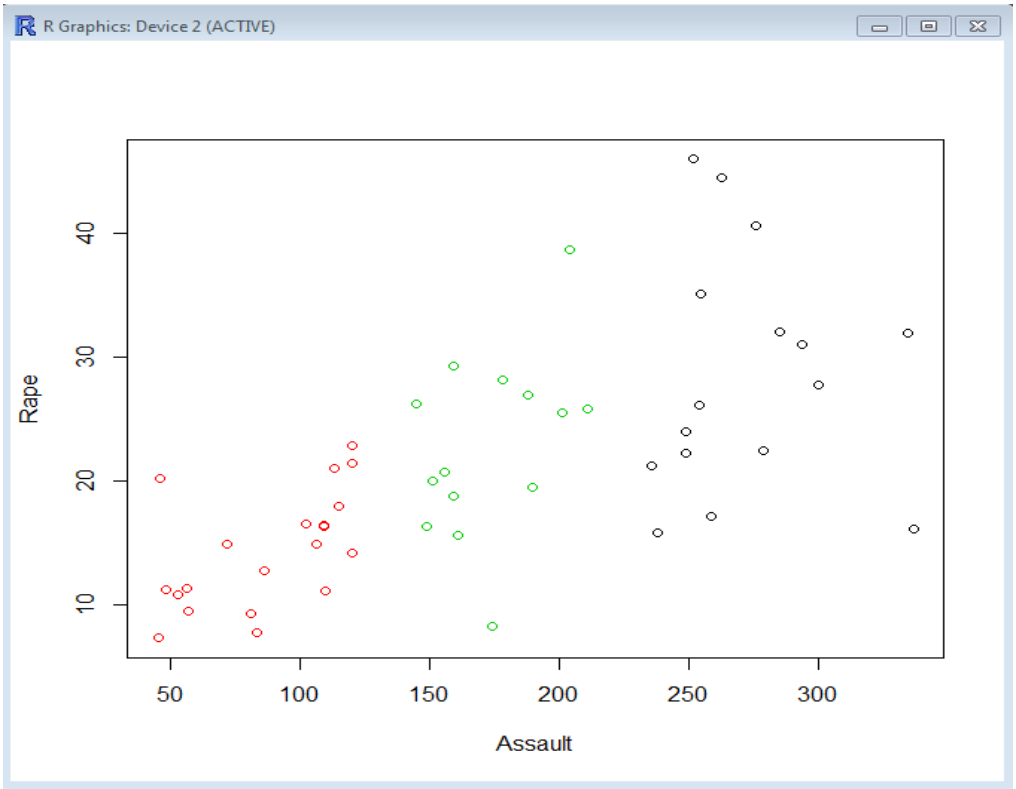
	Murder	Assault	UrbanPop	Rape
1	13.2	236	58	21.2
2	10.0	263	48	44.5
3	8.1	294	80	31.0
4	8.8	190	50	19.5
5	9.0	276	91	40.6
6	7.9	204	78	38.7
7	3.3	110	77	11.1
8	5.9	238	72	15.8
9	15.4	335	80	31.9
10	17.4	211	60	25.8
11	5.3	46	83	20.2
12	2.6	120	54	14.2
13	10.4	249	83	24.0
14	7.2	113	65	21.0
15	2.2	56	57	11.3
16	6.0	115	66	18.0
17	9.7	109	52	16.3
18	15.4	249	66	22.2
19	2.1	83	51	7.8

3. Creating 3 clusters using k-means algorithm

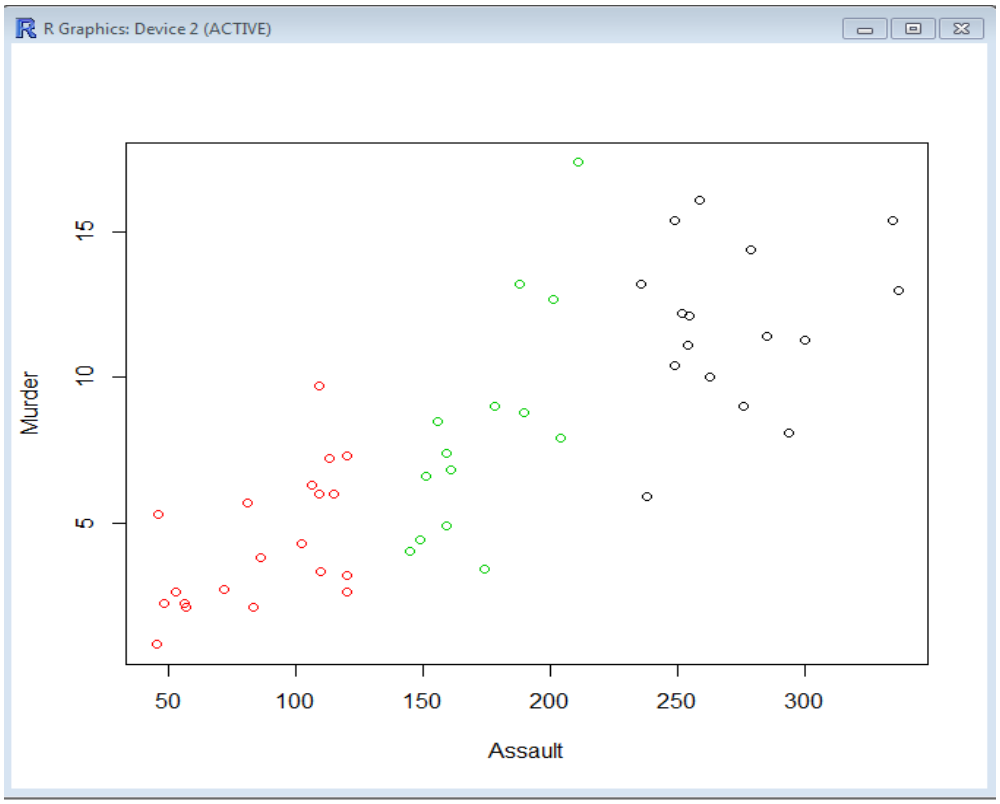


OUTPUT SCREENS :

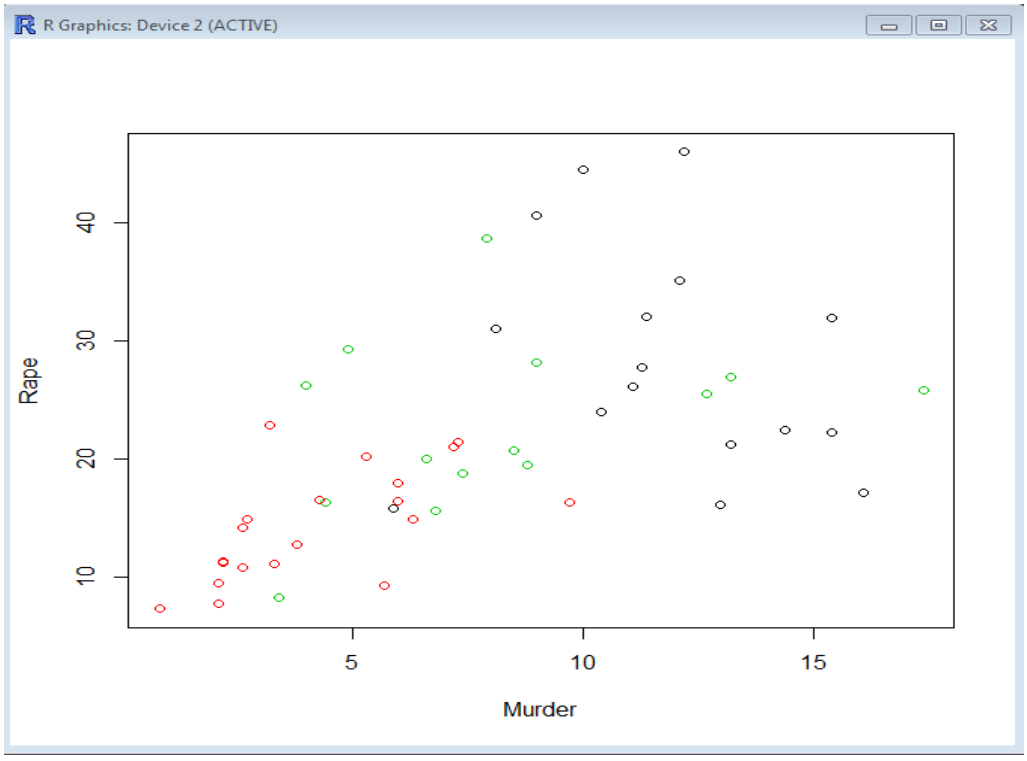
1. Assault vs Rape



2. **Murder-Assault**



3. **Murder-Rape**



4. Murder-Assault-Rape together statistics clustering