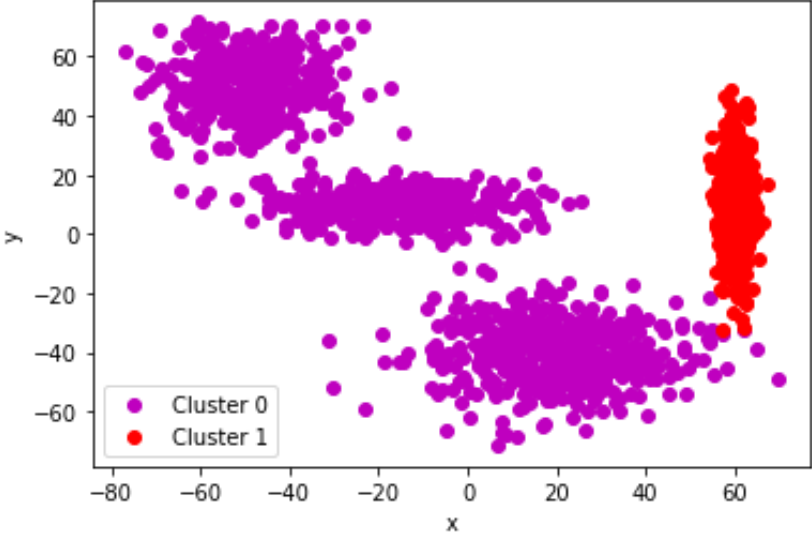
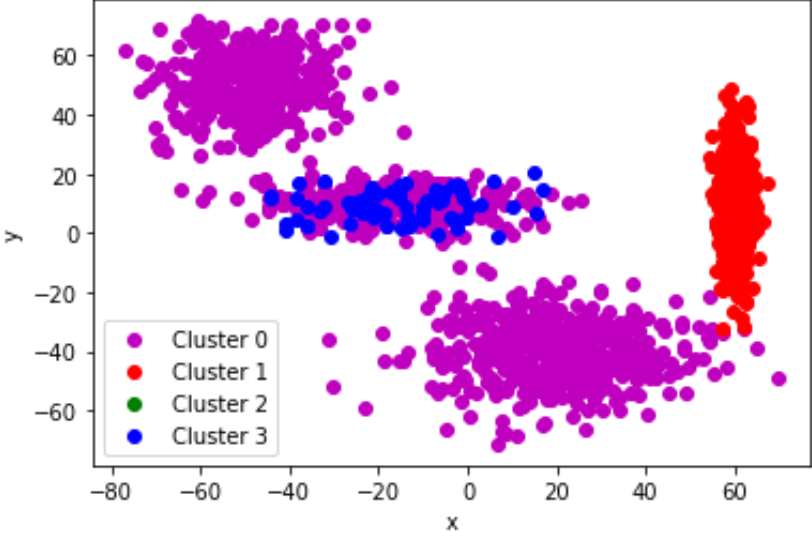
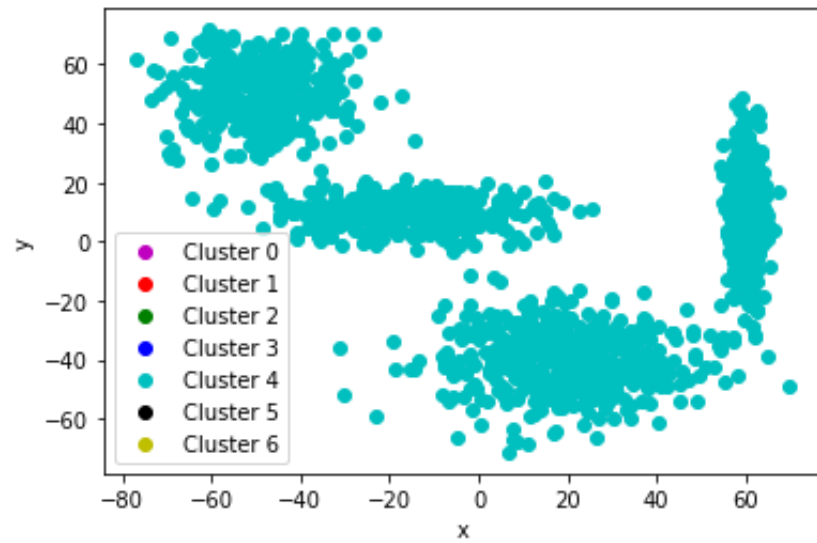


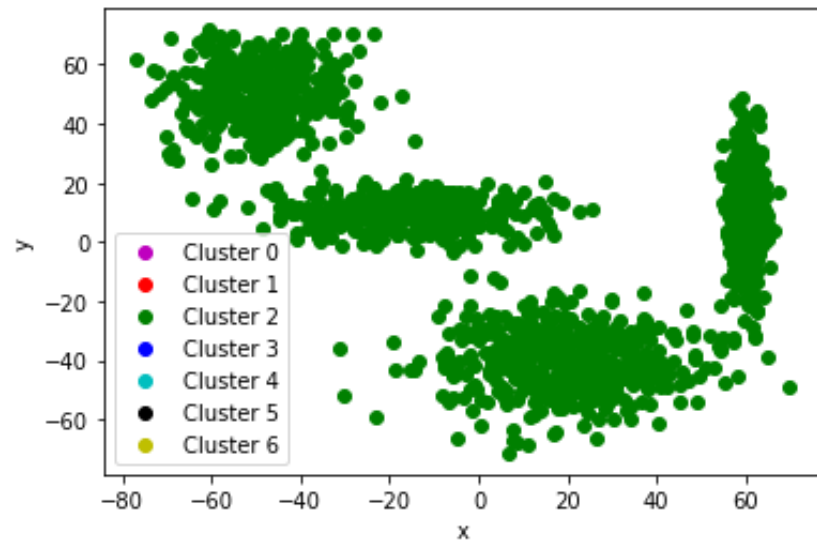
## K-means Clustering:

K	plot
<p>2 Inertia = 61371.56045051292</p>	 <p>A scatter plot showing two clusters of data points. The x-axis ranges from -80 to 80, and the y-axis ranges from -60 to 60. Cluster 0 (purple) is a large, irregularly shaped group of points covering most of the plot area. Cluster 1 (red) is a smaller, more compact group of points located on the right side of the plot, around x=60 and y=0 to y=50. A legend in the bottom-left corner identifies the clusters.</p>
<p>4 Inertia = 78933.39183898819</p>	 <p>A scatter plot showing four clusters of data points. The x-axis ranges from -80 to 80, and the y-axis ranges from -60 to 60. Cluster 0 (purple) is the largest group, covering the bottom and left-center areas. Cluster 1 (red) is on the right side, similar to the K=2 case. Cluster 2 (green) is a small group of points located near the center, around x=0 and y=0. Cluster 3 (blue) is a group of points located in the upper-left area, around x=-40 to x=-20 and y=0 to y=20. A legend in the bottom-left corner identifies the clusters.</p>

6  
Inertia =  
78856.55490515106



7  
Inertia =  
106653.11113302816



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