**Exercise-1**

**Observations:**

1. **The value of 2 and 3 for n\_clusters looks to be the optimal one. The silhouette score for each cluster is above average silhouette scores.**
2. **Also, the fluctuation in size is similar.**

**3. The thickness of the silhouette plot representing each cluster also is a deciding point.**

**4. For the plot with n\_cluster 3 (top right), the thickness is more uniform than the plot with n\_cluster as 2 (top left) with one cluster thickness much more than the other.**

**5. Thus, one can select the optimal number of clusters as 3.**