Task 2.3

Q4

when the data points are assigned to the closest cluster , kmeans clustering stops , as there no any improvements can be done . centroids stop from changing

Q5

Best no of clusters is 4 as the highest mean silhouette score indicates the most appropriate no of clusters.

Q6

Depends on initial centroids. If the initial centroid assumption doesn’t reperesent data accurately final result wont be accurate

K need to be defined in the beginning as it wont work every time

Cant work with numeric data, need to be converted (eg : in fisheriris species )

Task 2.4

Q5

Requires a a considerable amount of time when executing

Needing k to be predefined . with this it may lead to issues with accuracy