Use k-means clustering for image segmentation and to identify dominant color in the image.

**Question:**

1.Open and display the image “dog.jpeg”. Convert the image in to numpy array, so that in can be used in further processing

[

Hint

:

Use PIL module from python]

2

. Find out the dimensions of the image and convert it in to a two D array



3

.Use kmeans clustering with k set to 3 and cluster the image.

[

Hint: Refer to k

-

means module of scikit learn]

4

. Predict the

cluster label of every pixel in the image and plot it back as an image.