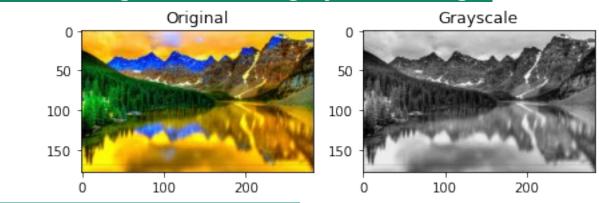
Ravi Ranjan Kumar CSE17U017

## **Source Image:**

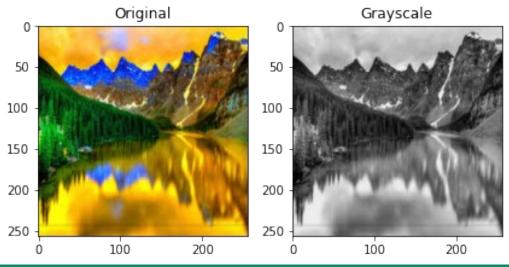


Dimensions of source Image: (178, 283, 3)
Resized Dimensions of Source Image: (256, 256, 3)

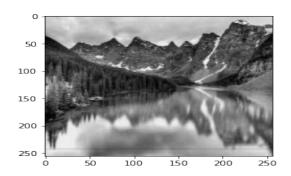
## Source Image convert on gray scale Image:



After Resized Dimensions:



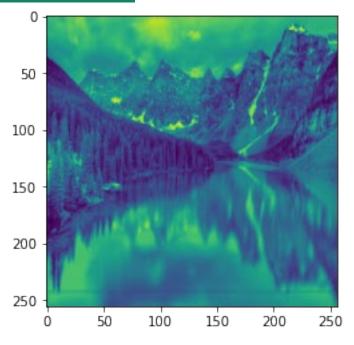
Consider Only Grayscale image for futher Analysis:



According to question Changing the cluster values:

Cluster (K)	1	2	3	4	5	6	8	12	16	20
output	0 33 135 156 156 266 276 2 52 350 350 350 350	100 100 100 100 100 100 100 100 100 100	120 120 120 120 120 120 120 120 120 120	120 120 120 120 120 120 120 120 120 120	20 20 20 20 20 20 20 20 20 20 20 20 20 2	30 100 100 200 200 200 200 200 200 200 20	30 30 30 30 50 50 50 50 50 50 50 50 50 50 50 50 50	30 30 33 35 26 52 10 20 20 20 20 20	30 30 30 50 50 50 50 50 50 50 50 50 50 50 50 50	30 30 30 30 30 30 30 30 30 30 30 30 30 3

Final output with cluster=220



## for code Github

link:https://github.com/Bmras/Machine-Learning/blob/master/K\_means
\_clustering\_by\_using\_OpenCV.ipynb

Thanks