* Vector Quantization

- It is a technique of mapping large set of input values into smaller sets or groups.
- Pixels are clustered into similar groups & then using center of each pixel group or taking average of group, all blocks of pixels are classified.

- We can achieve data compression using vector quantization, it can be used in transmission system.
- There are several benefits of this algo. like data analysis & image compression.

- But there is a drawback of this technique, that is is a lossy data compression.
- But, we can customize it according our need. If we want better image quality, then we can increase no. of blocks, but in the other hand if we want compressed image with less size then we can reduce no. of blocks.
- we can also use this technique for classifying face patterns, it will help in digital forenetsic to identify criminal face patterns.