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Observations: The image quality is enhanced when image processing is used, and the shades of the image are distributed in a uniform manner.

Calculations:

Grey Level	No. of Pixels (nk)	PDF = (nk/sum)	CDF = Sk	Sk * 7	Histogram equal level
0	0	0	0	0	0
1	0	0	0	0	0
2	0	0	0	0	0
3	6	0.24	0.24	1.68	2
4	14	0.56	0.8	5.6	6
5	5	0.2	1.0	7	7
6	0	0	1.0	7	7
7	0	0	1.0	7	7

SpeedUp:

Before using MPI: MPI helps to decentralise work and helps for faster execution of files.

Without using MPI, the execution time is slow.

After using MPI: MPI helps to execute faster as compared to previous observation.