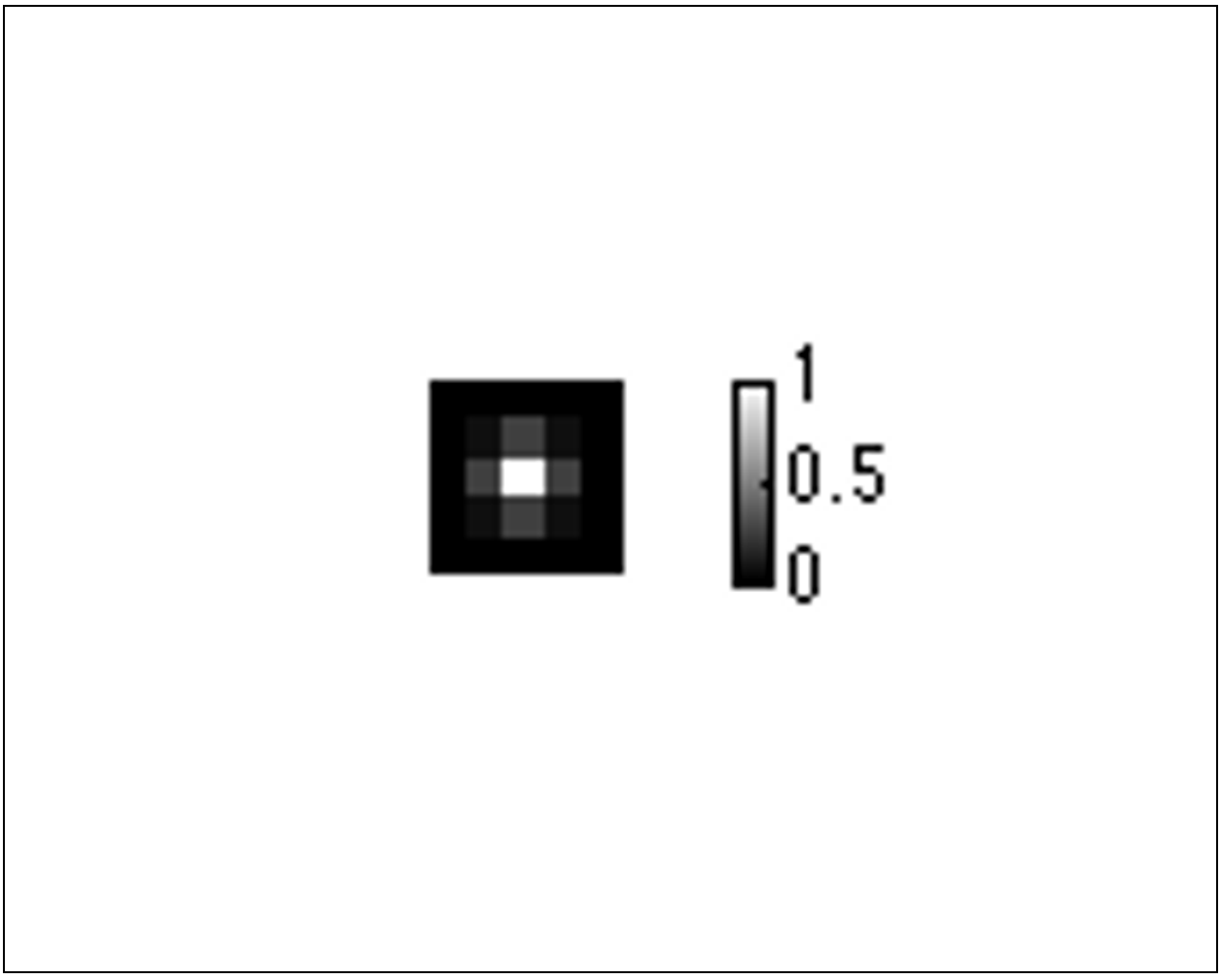
Question 2

Optimized values

Spatial Sigma = 0.7920
Intensity Sigma = 0.0490

Spatial Gaussian Mask



Images with tuned parameters

Spatial Sigma = 0.7920
Intensity Sigma = 0.0490

Original	Corrupt	Filtered

Other Images

Spatial Sigma = 0.7130
Intensity Sigma = 0.0490

Original	Corrupt	Filtered

Spatial Sigma = 0.7920
Intensity Sigma = 0.0440

Original	Corrupt	Filtered

Spatial Sigma = 0.7920
Intensity Sigma = 0.0540

Original	Corrupt	Filtered

Spatial Sigma = 0.8710
Intensity Sigma = 0.0490

Original	Corrupt	Filtered

RMSD Values

Spatial Sigma	Intensity Sigma	RMSD between Original and Noisy	RMSD between Original and Final	RMSD between Noisy and Final
0.7920 (optimal)	0.0490 (optimal)	3.8140e-05	2.5995e-05	2.5439e-05
0.7128 (0.9)	0.0490 (optimal)	3.8140e-05	2.6292e-05	2.2737e-05
0.8712 (1.1)	0.0490 (optimal)	3.8140e-05	2.6033e-05	2.7608e-05
0.7920 (optimal)	0.0441 (0.9)	3.8140e-05	2.5988e-05	2.3672e-05
0.7920 (optimal)	0.0539 (1.1)	3.8140e-05	2.6243e-05	2.7072e-05