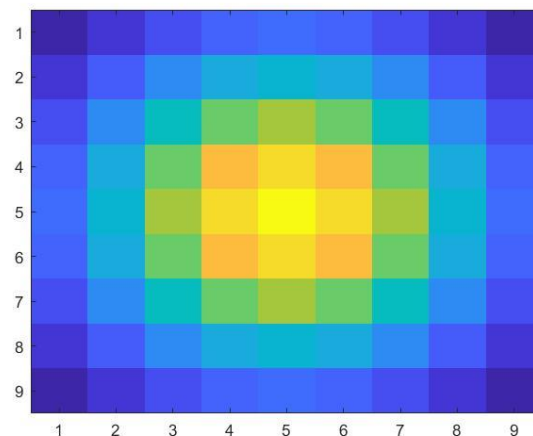


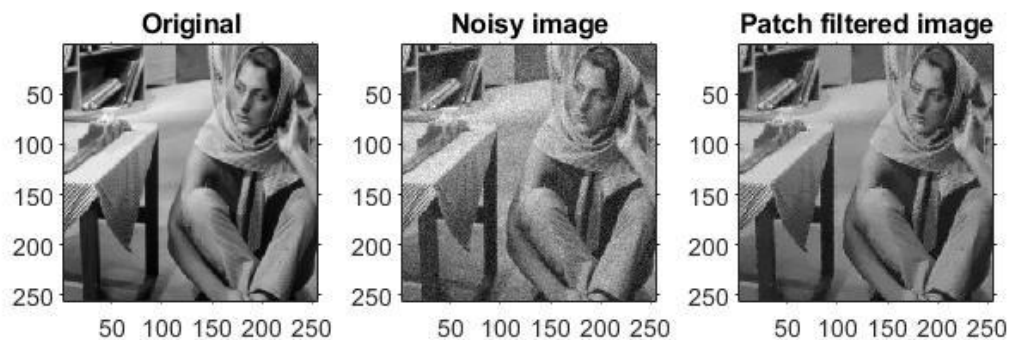
## Q3 Report:

- All the values of the images are normalized between 0-1.0 before printing them.
- The progress bar has been changed to progress percentages after every loop that gets printed out.

Gaussian Patch used for making patches isotropic:



For Barbara:



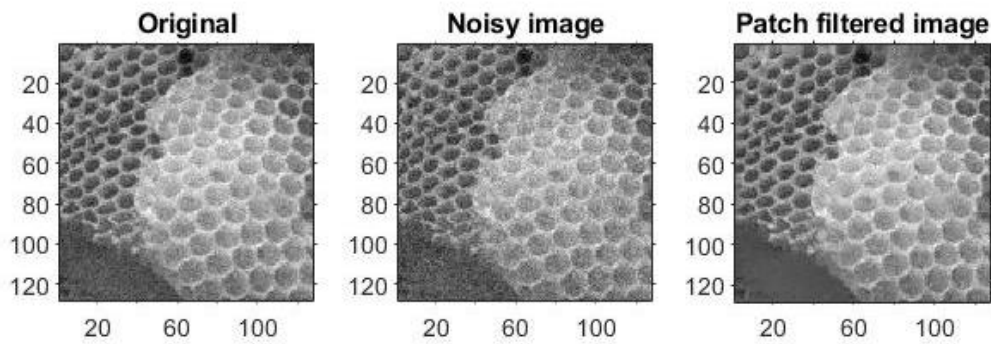
Optimal sigma (till tested) = 0.005

RMSD for optimal sigma = 0.037545

RMSD for  $0.9 \times \text{sigma}$  = 0.041915

RMSD for  $1.1 \times \text{sigma}$  = 0.34187

For honeyCombReal



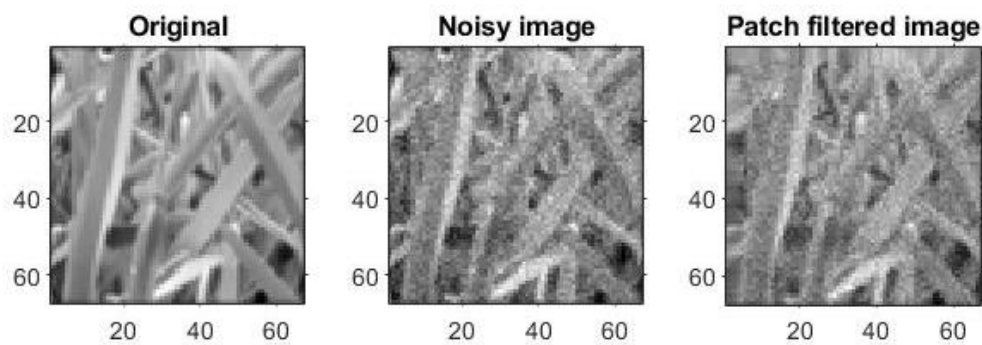
Optimal parameter (till tested) = 0.0072

RMSD for optimal sigma = 0.042027

RMSD for  $0.9 \cdot \sigma$  = 0.044155

RMSD for  $1.1 \cdot \sigma$  = 0.041157

For grass



Optimal parameter (absolute) = 0.0024

RMSD for optimal sigma = 0.057089

RMSD for  $0.9 \cdot \sigma$  = 0.057697

RMSD for  $1.1 \cdot \sigma$  = 0.057703