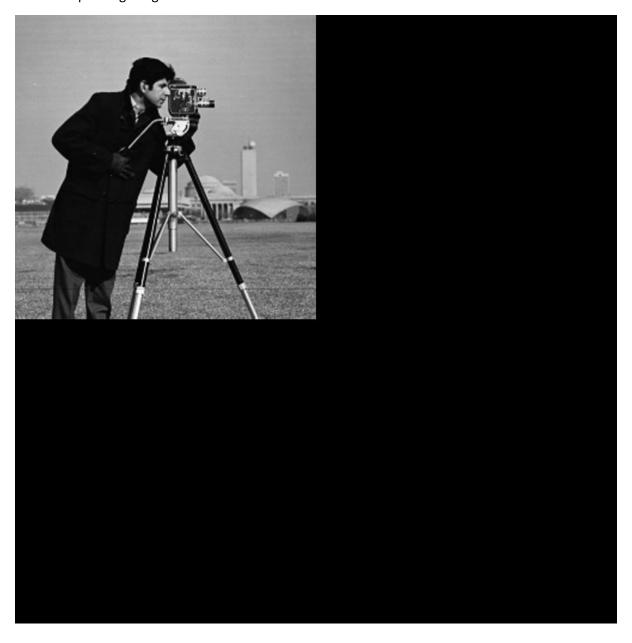
NOTE- In the matlab code I have used imsave() as it save proper images , while using imread() the images were not getting stored properly.

STEP 2 image:-

Here p= 2xM and q=2xN

This is the padding image

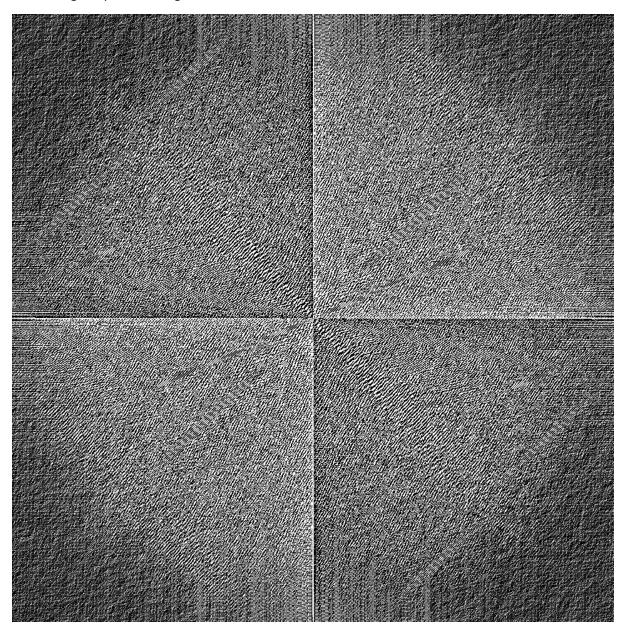


STEP 3 image-

Here I have multiplied the padded image with (-1)x+y.

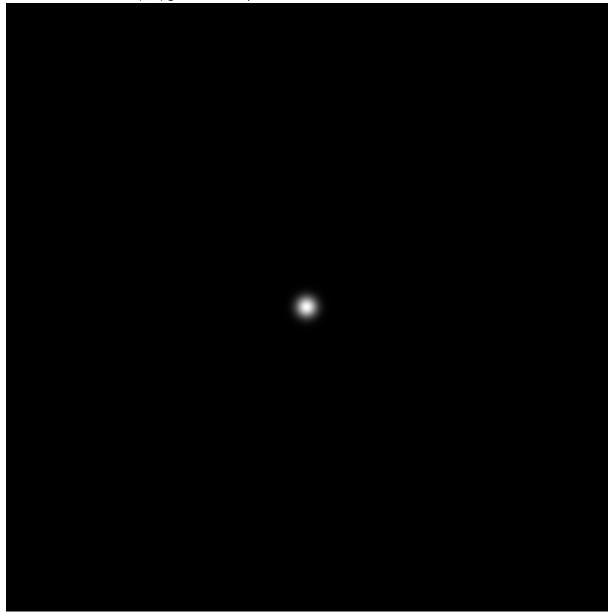


STEP 4 image:Converting the padded image to DFT.



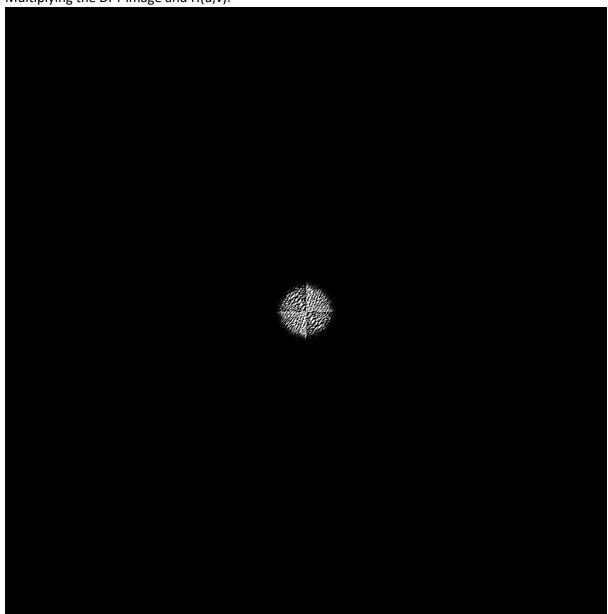
STEP 5 image:-

Here we have made H(u,v) gaussian low pass filter.

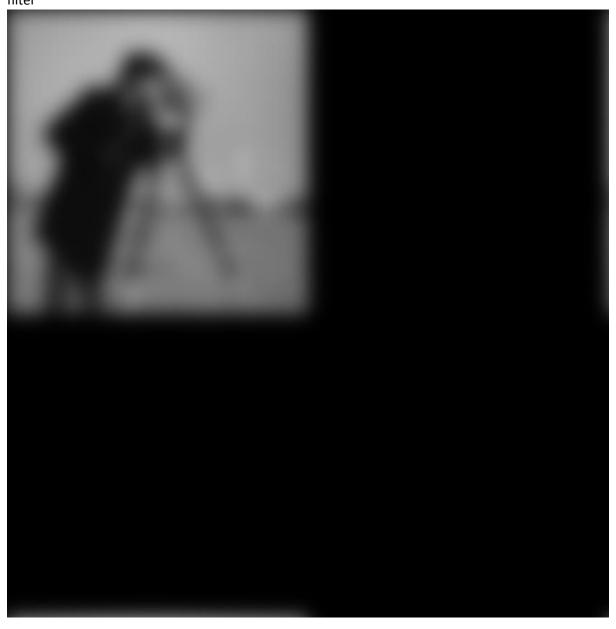


STEP 6 image:-

Multiplying the DFT image and H(u,v).



STEP 7 image:
Apply inverse DFT transformation and get back the padded image, after applying gaussian low pass filter



STEP 8 image:-

After obtaining the padded image , remove the padding and get the final image.