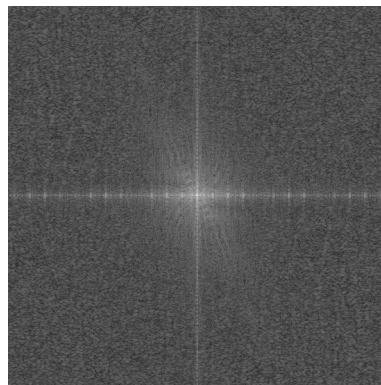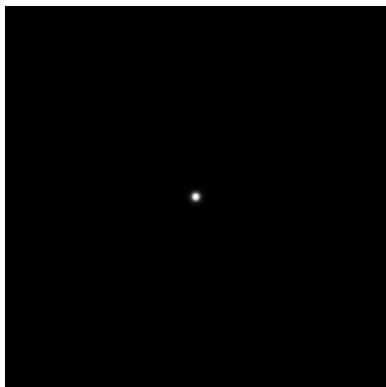a).Original Image

b).Fourier spectrum of a

c.Butterworth Lowpass filter ($D_0=10, n=2$)

e).Result image