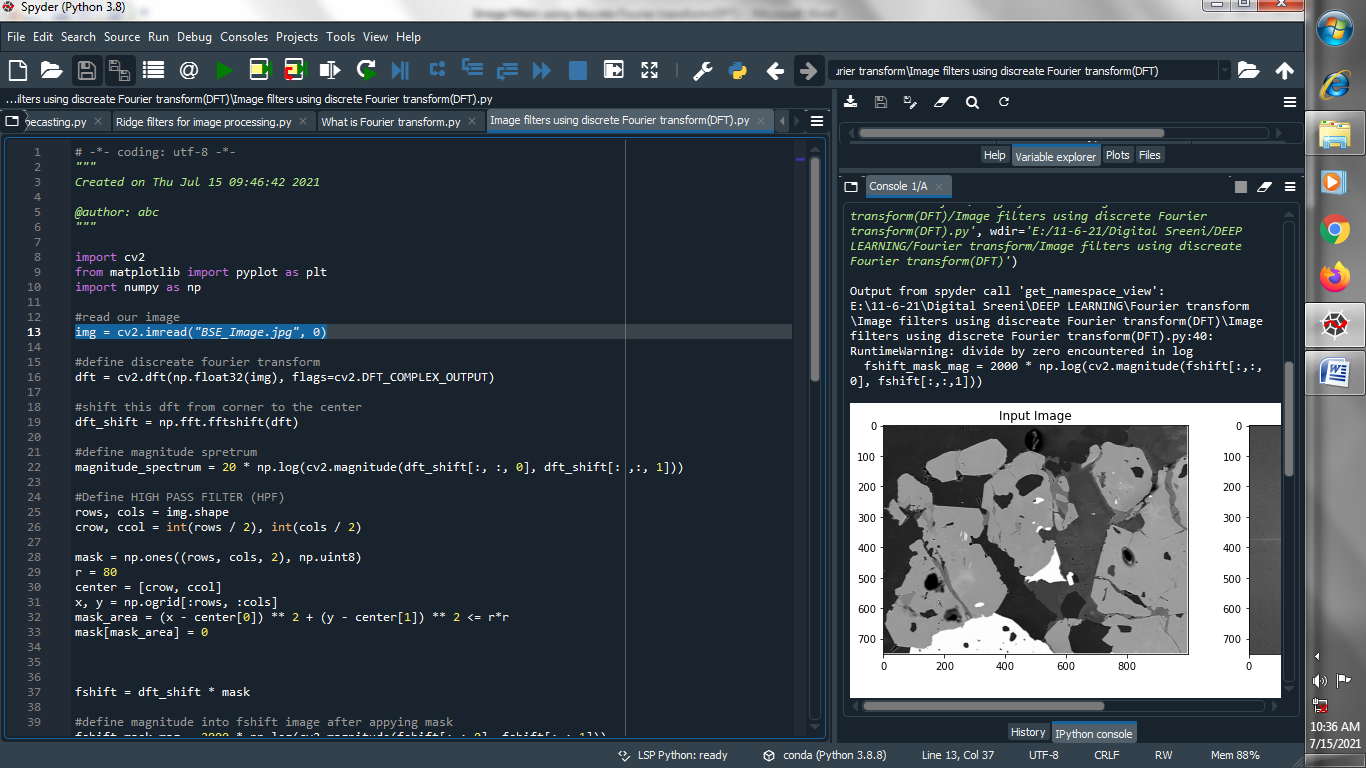
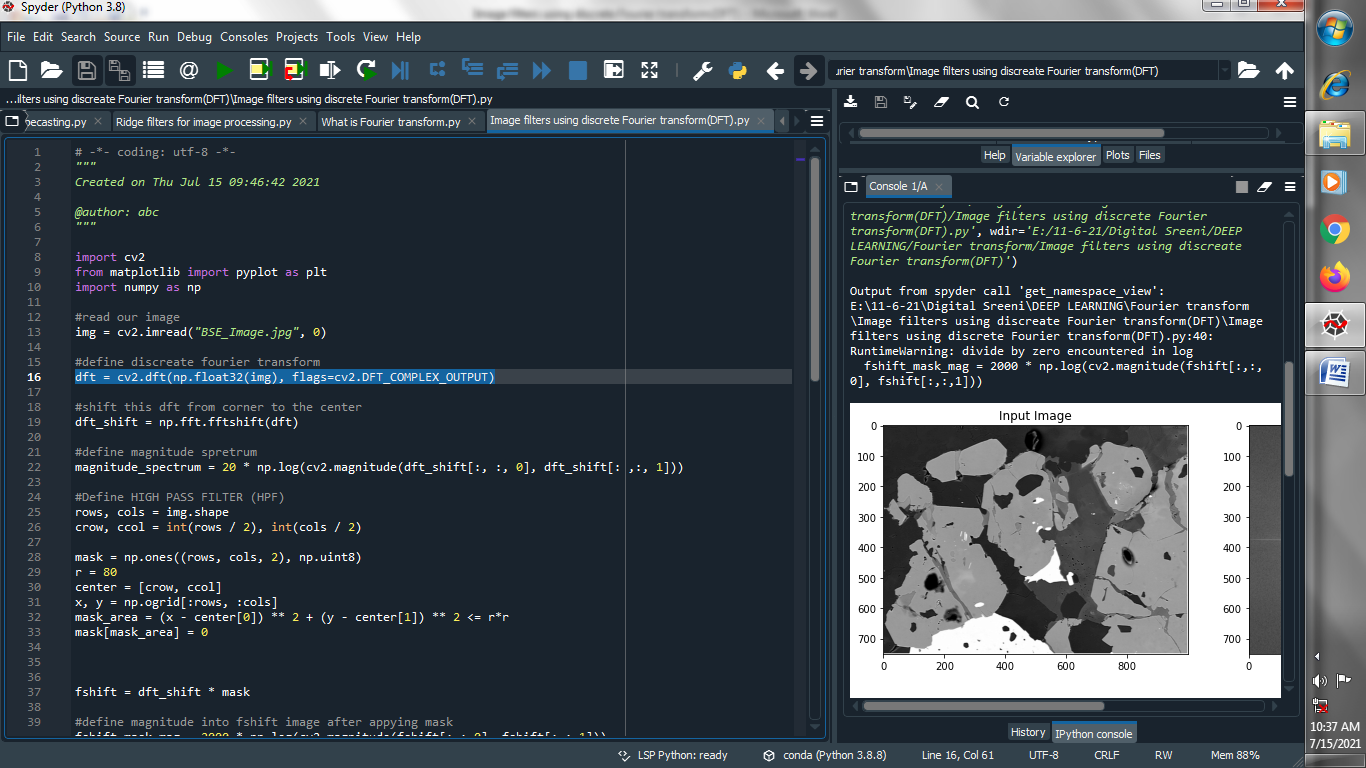
**→ Image filters using discreate Fourier transform (DFT) :**

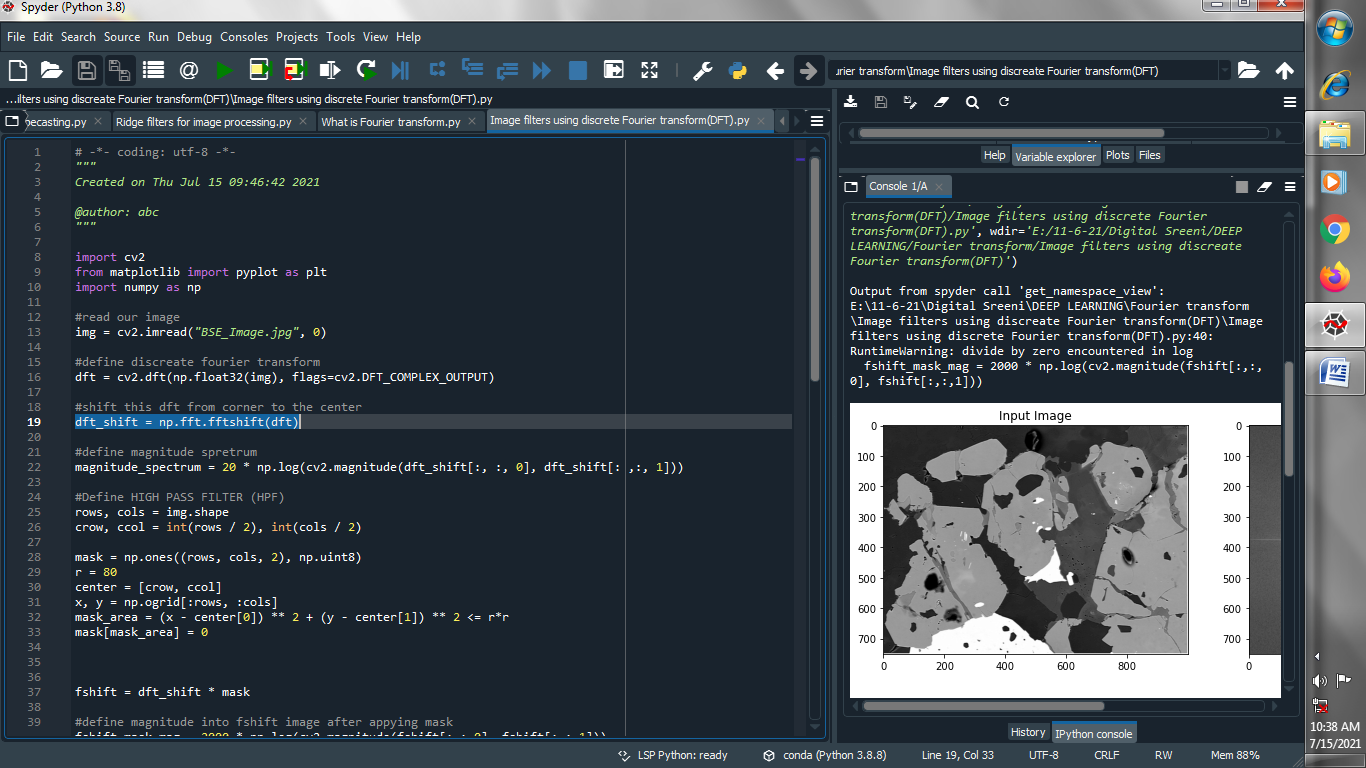
1. **Read our image :**

****

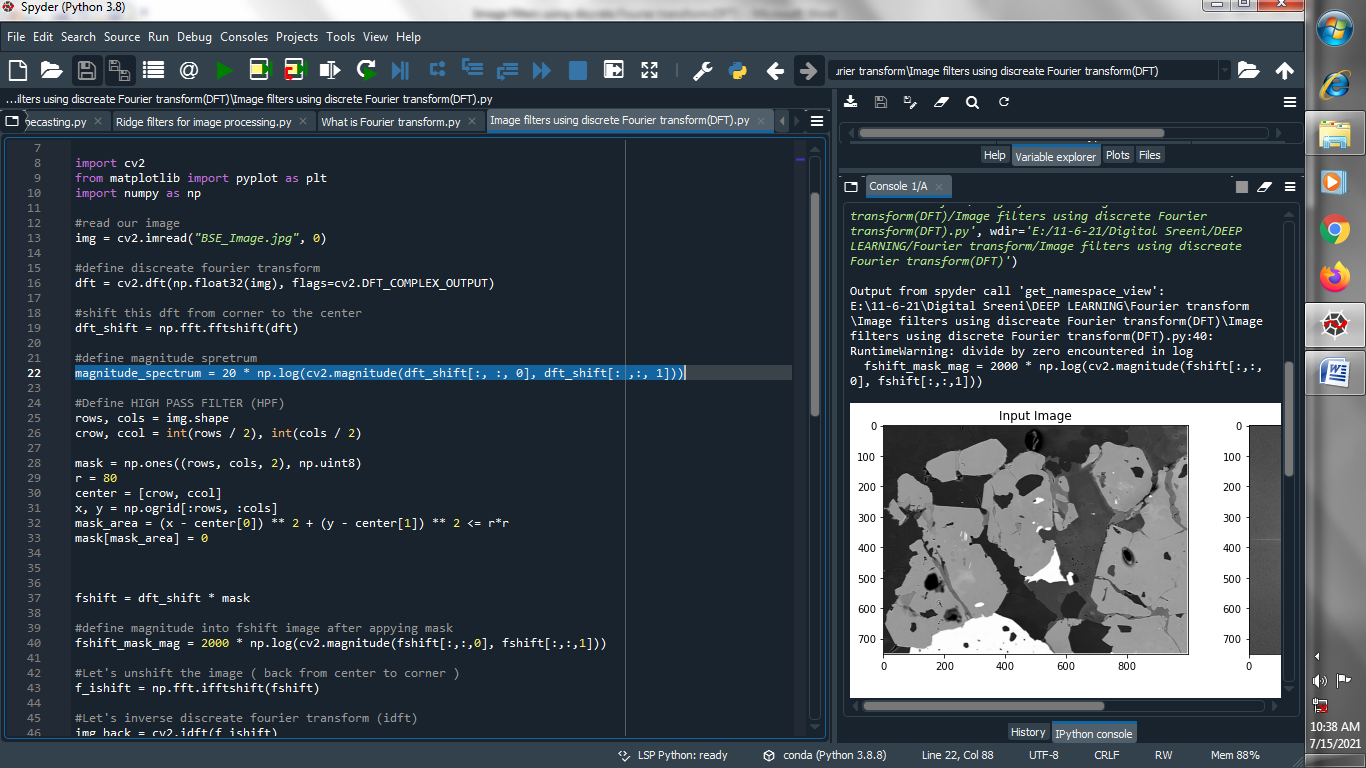
1. **define discreate fourier transform :**

****

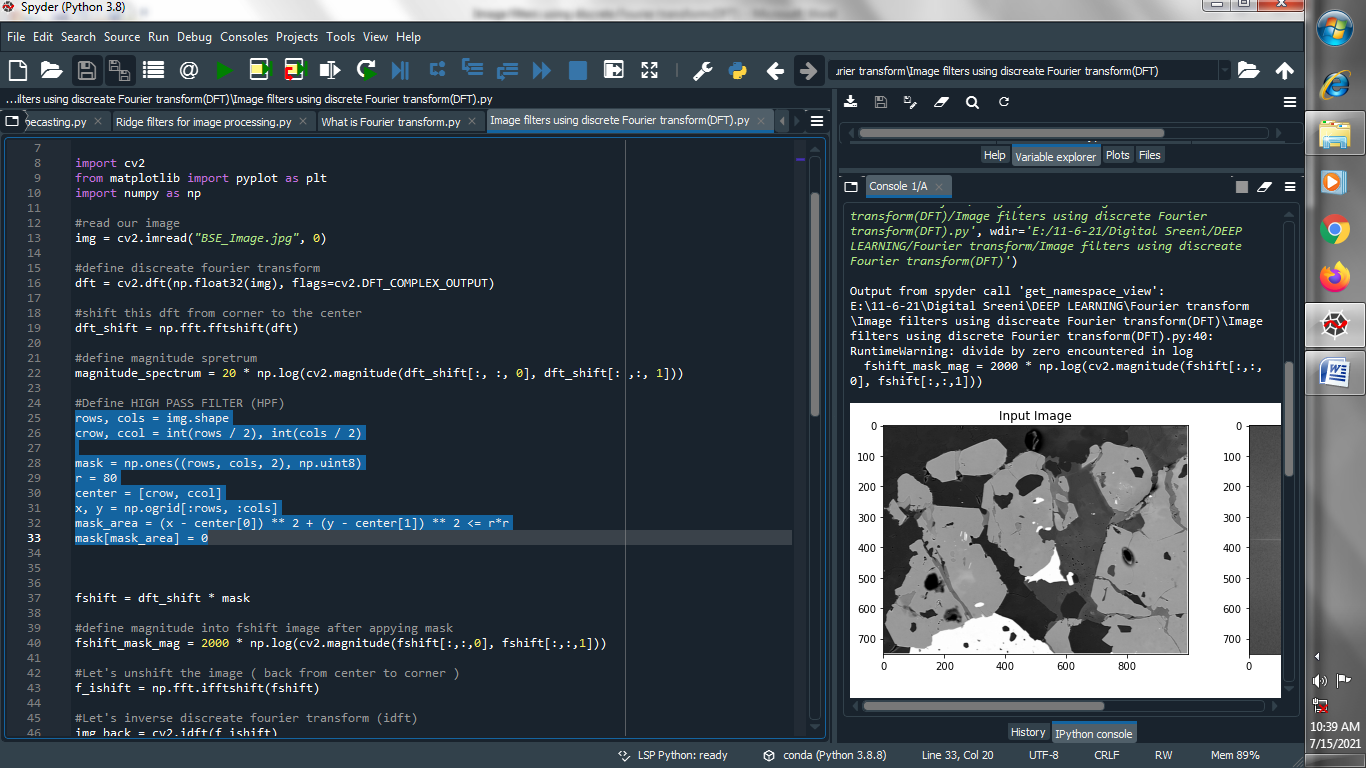
1. **shift this dft from corner to the center :**

****

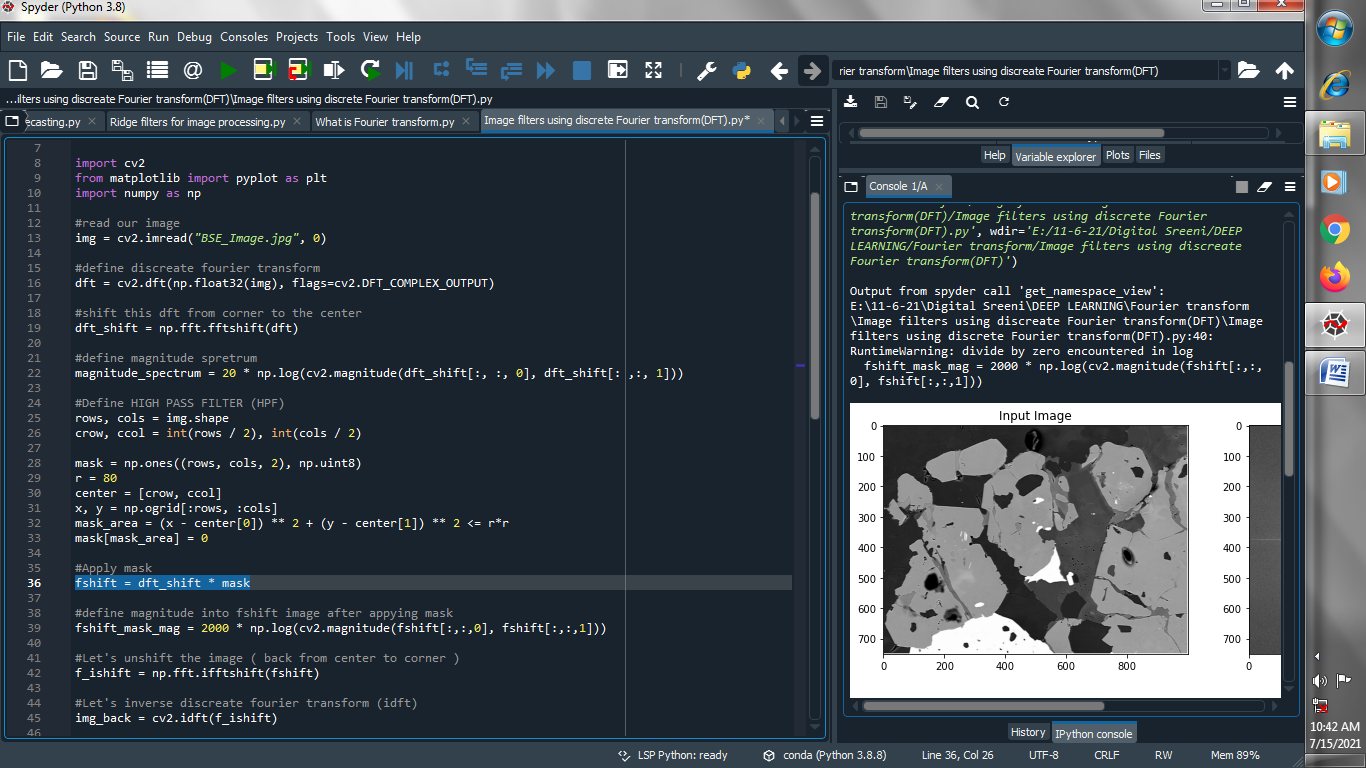
1. **define magnitude spretrum :**

****

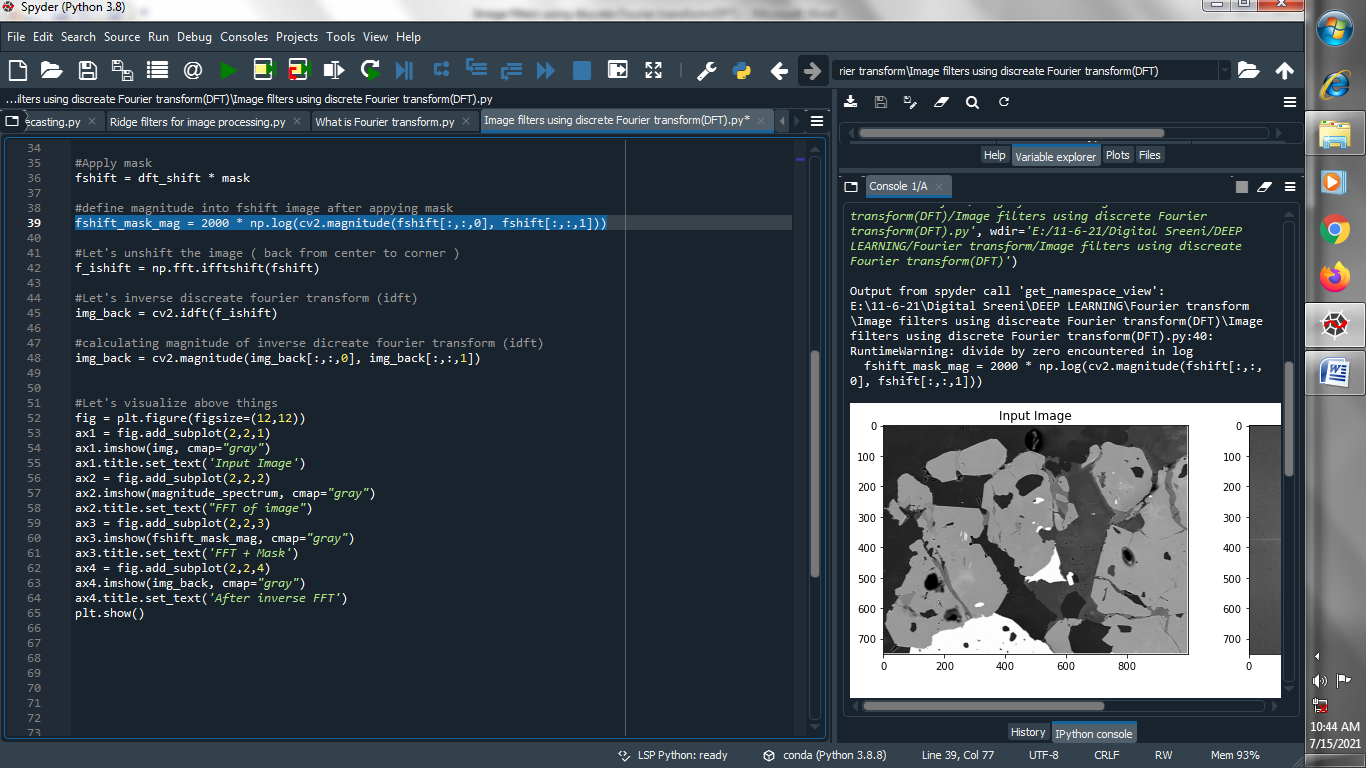
1. **Define HIGH PASS FILTER (HPF):**

****

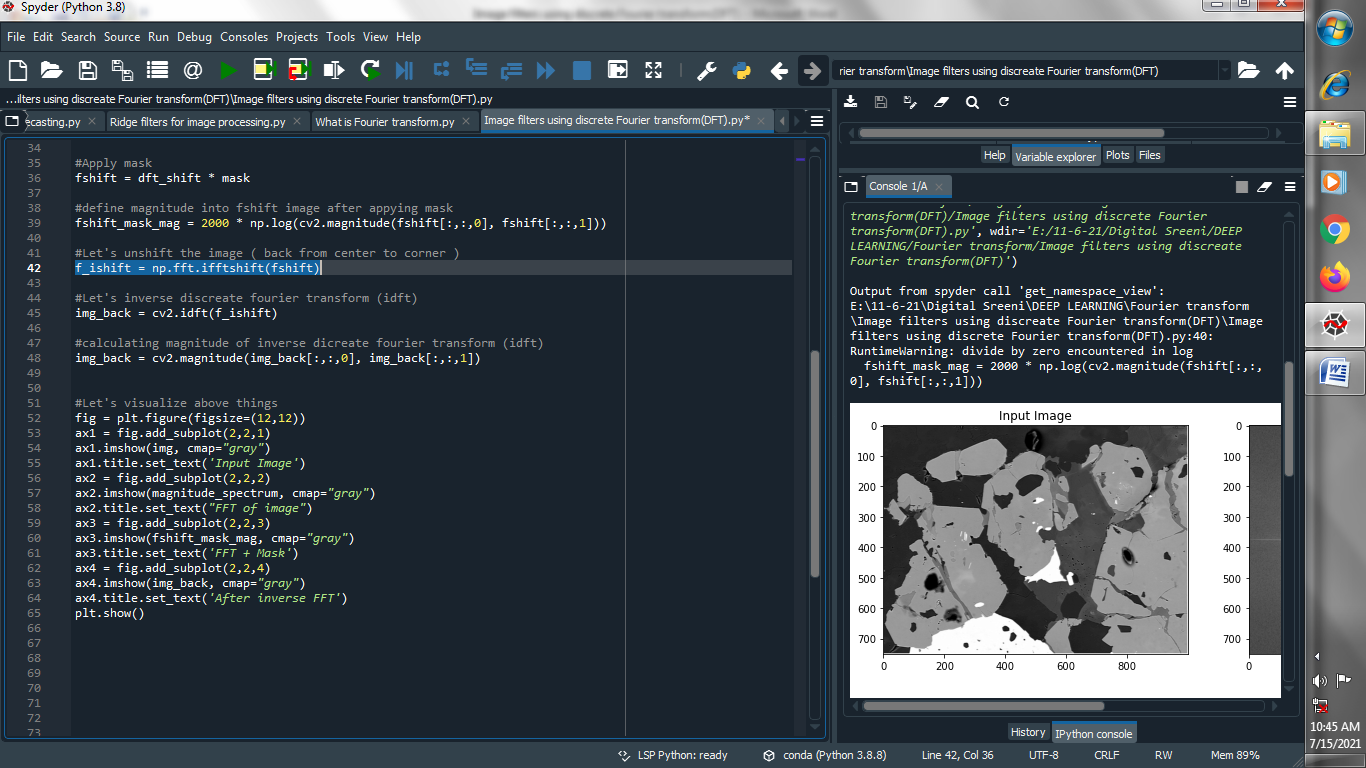
1. **Apply mask :**

****

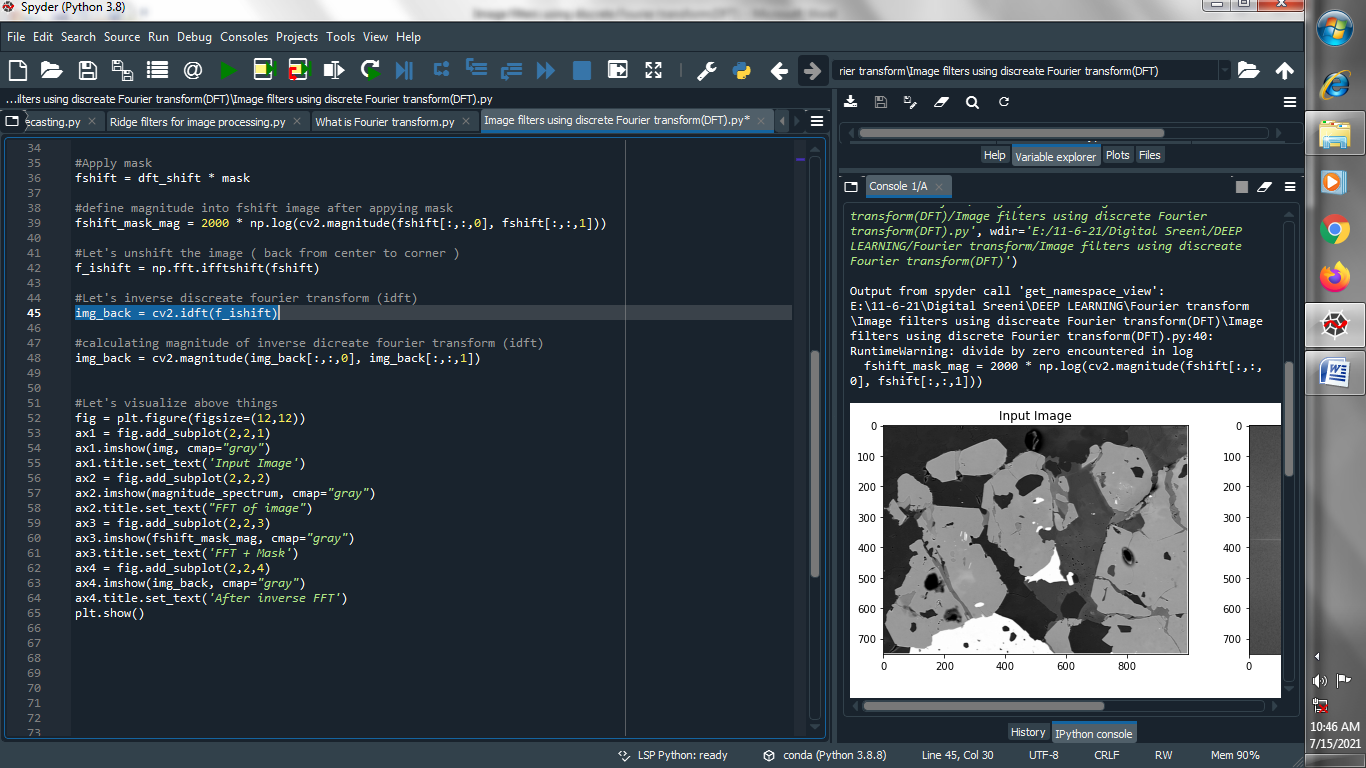
1. **define magnitude into fshift image after applying mask :**

****

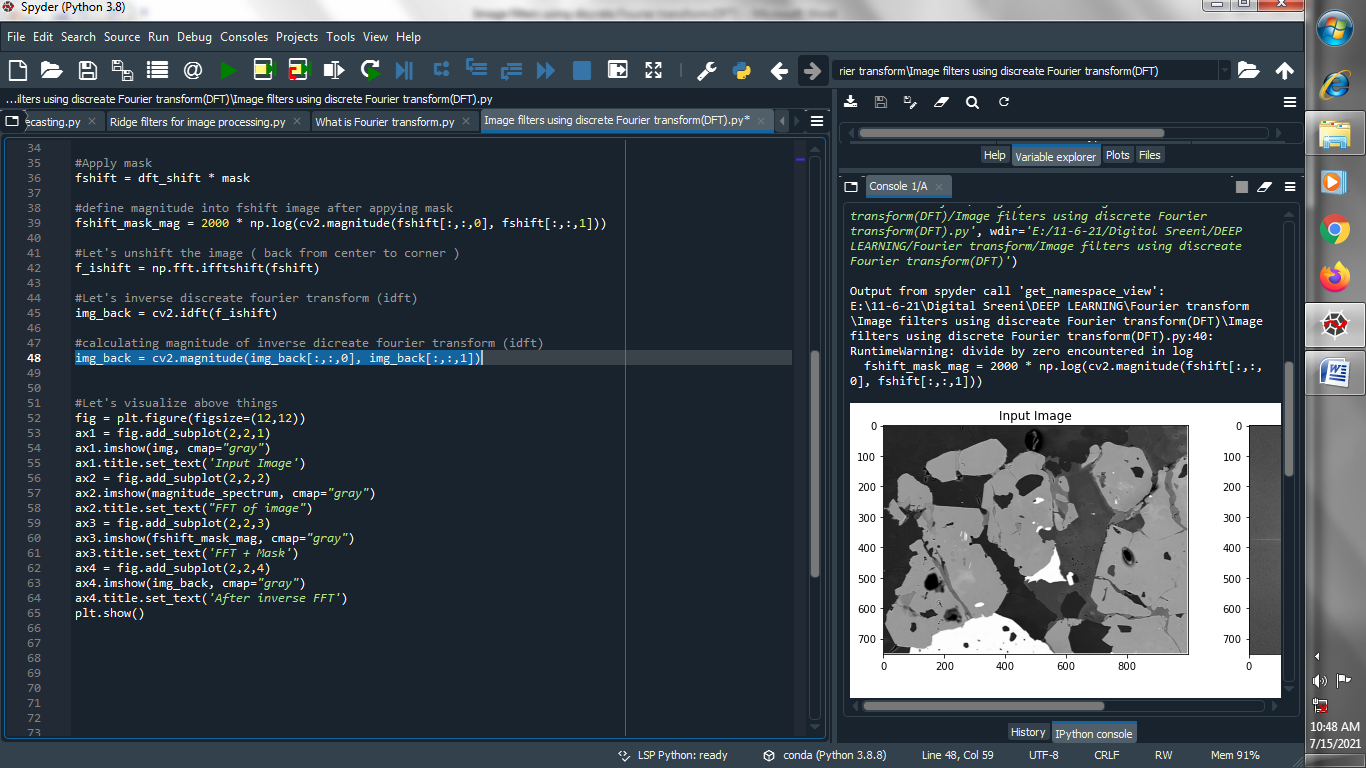
1. **Let's unshift the image ( back from center to corner ) :**

****

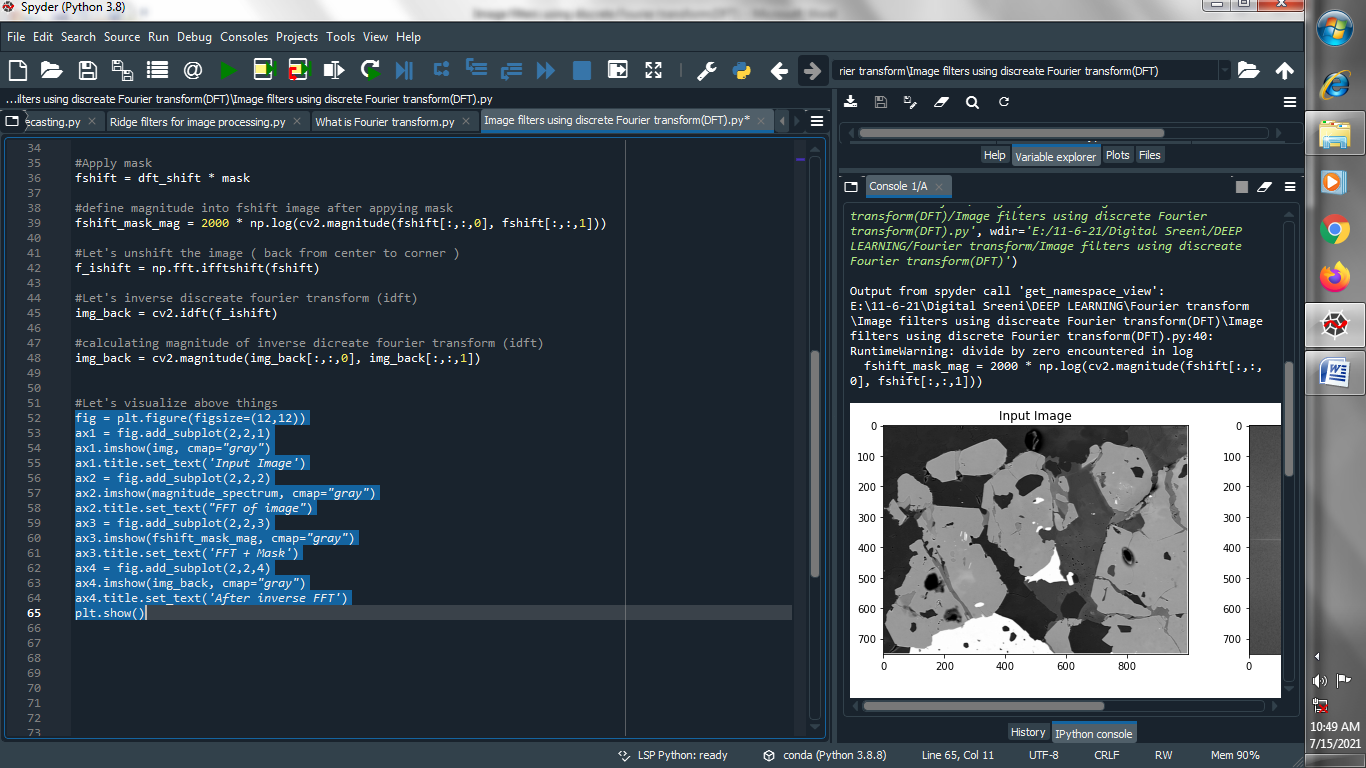
1. **Let's inverse discreate fourier transform (idft) :**

****

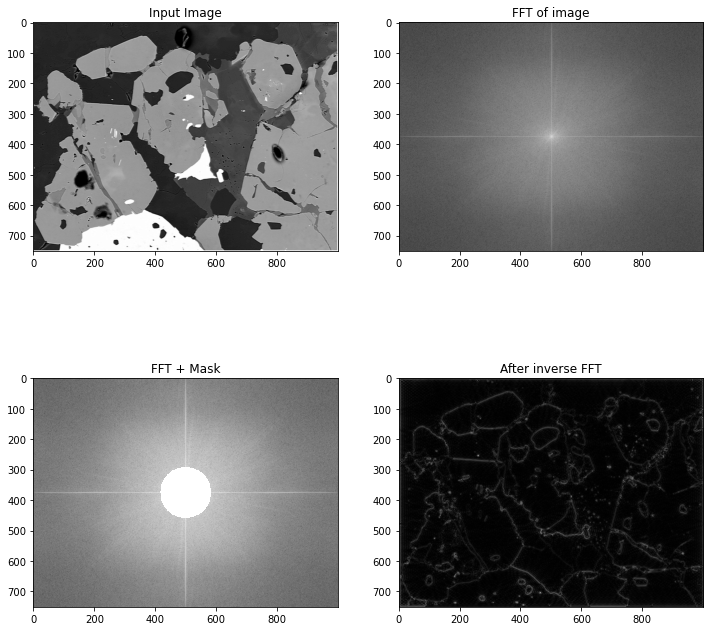
**(10) calculating magnitude of inverse dicreate fourier transform(idft) :**

****

**(11) Let's visualize above things :**

****

**Output :**

****