CS 663: Assignment 5

Question 4

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Notes

All the necessary images are present in the corresponding question's *images* folder.
The tuned parameters can also be found in the main script file in code directory.

Observations

- The parameters used for filter are
  - Ideal LP filter -> cutoff frequency = 60
  - Gaussian LP filter -> sigma = 60
- From the fourier images of the filter we can clearly see the ripple effect due to sinc function in case of ideal low pass filter.
- Also, this effect can be observed in the final images of barbara.
- Some texture pattern frequency (on her dress) is also lost in ideal filter but is retained in the gaussian filter

Images

- In the next page you can find the images of barbara and filter in order of ideal filter followed by gaussian filter.