Remove the periodic noise from the given image "Noisy_Smithsonian_Castle.jpg" (Picture Courtesy: By Max211 - Own work, CC0, https://commons.wikimedia.org/w/index.php?curid=58091312).

Provide the clear image and the noise pattern separately. The colab notebook should be well-documented. Follow the honour code.

Submit by: end of 27th October, 2022.

Max. marks: 10M