

8. Morphological Processing

a). Implement the morphological operations: erosion, dilation, opening and closing, and use the `noisy_fingerprint.tif` to check your implementation.

b). Implement boundary extraction, hole filling, connected component extraction. Using `lincoln_from_penny.tif`, `region_filling_reflection.tif` and `chickenfilet_with_bones.tif` to verify the results, respectively.