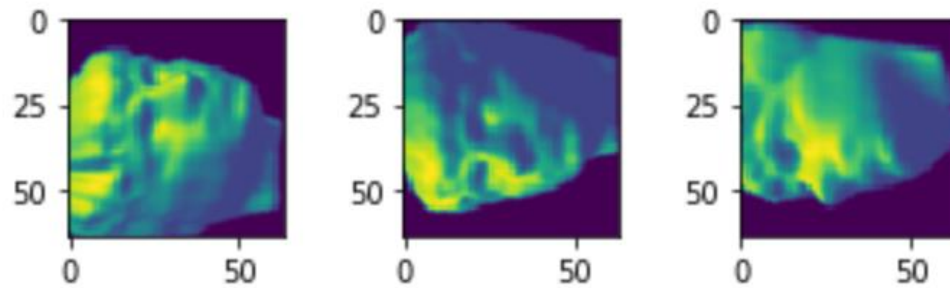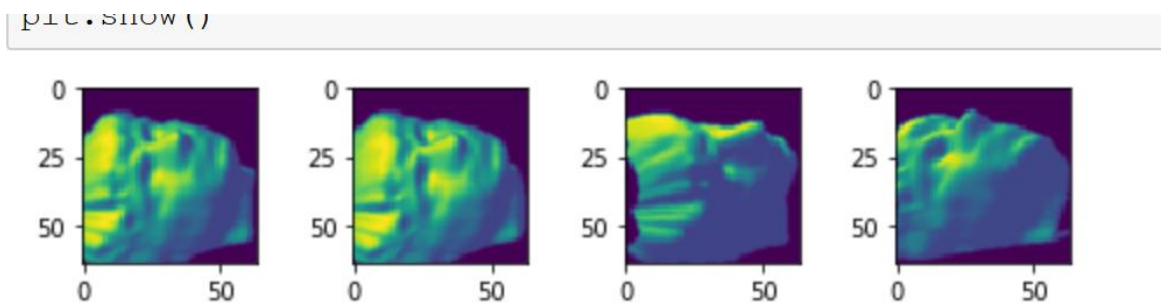Kien Vu

Question 1: **Euclidean Distance**
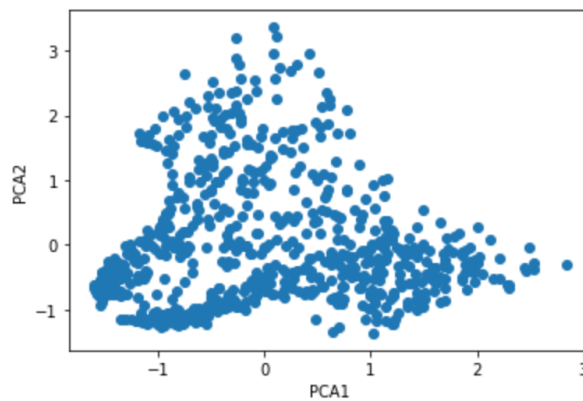
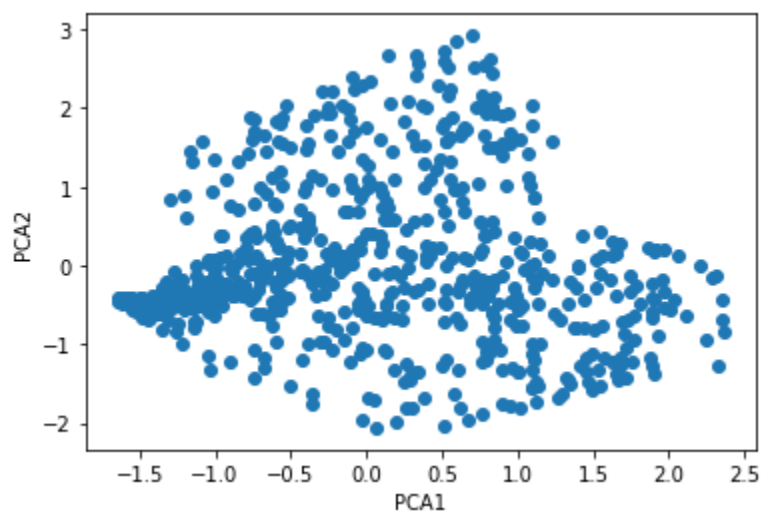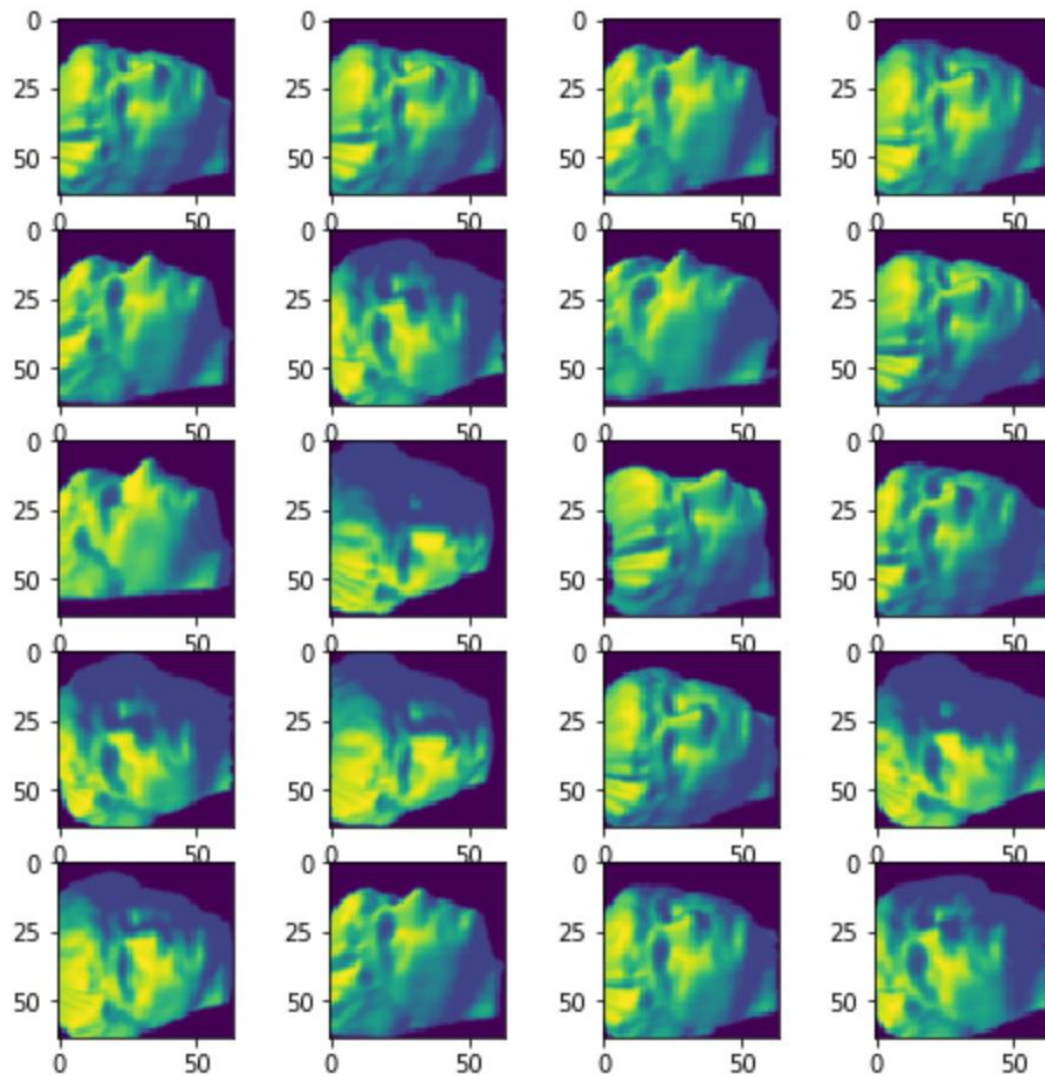a) Image 0, and (Image 1, Image3) are not connected to each other according to adjacency matrix

b) Image 0, and image 2, 4,9 belong to same group (representing small distance in adjacency matrix). They are all facing left

C) 20 images similar to image 0 after performing ISOMAP and calculating Euclidean distance of 2 principal components. They are visually similar which all faces are facing left.

Manhattan Distance

I see substantial difference while performing ISOMAP with "Euclidean distance" vs "Manhattan distance"

Top 20 images similar to Image 0 based on embedding ISOMAP using " Manhattan Distance " and Manhattan distance as measured of similarity