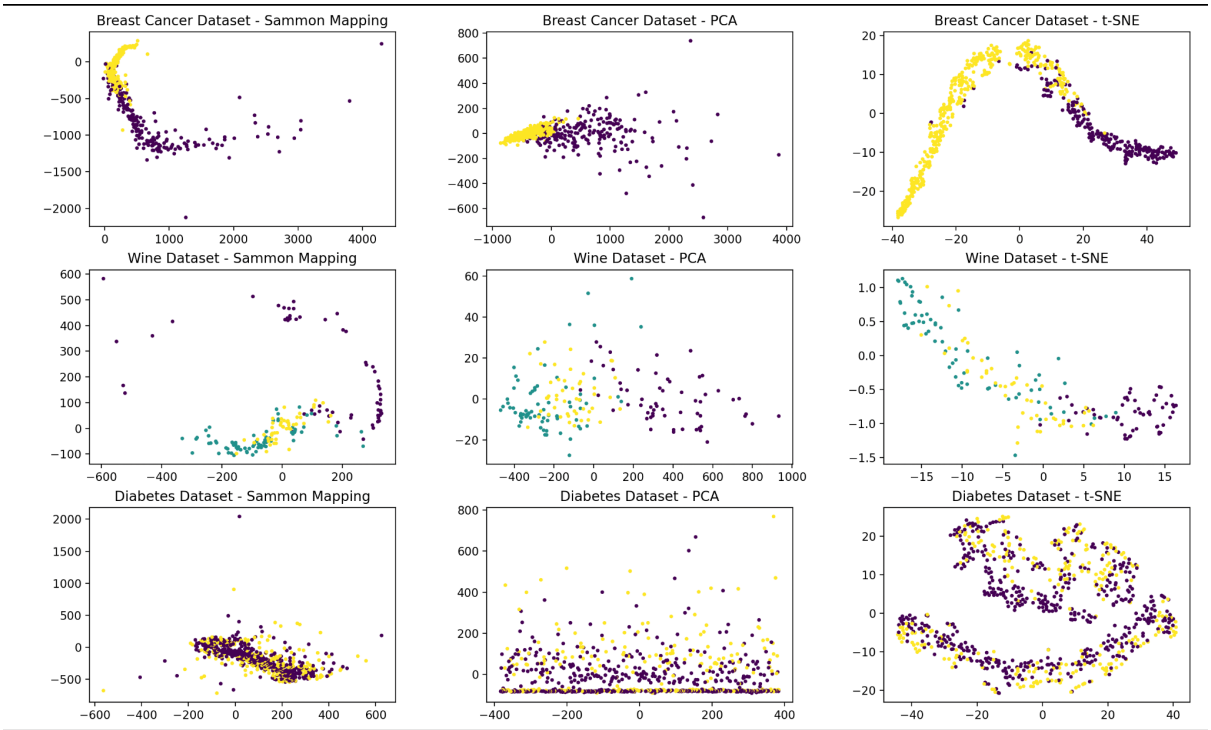
3.1:



For the first dataset, we can see that although they are very close, i would say that t-sne performed best. There was not a lot of scattering of the points. However, sammon did separate them a little bit better than t-sne (we can see some purple dots in the yellow of the t-sne).

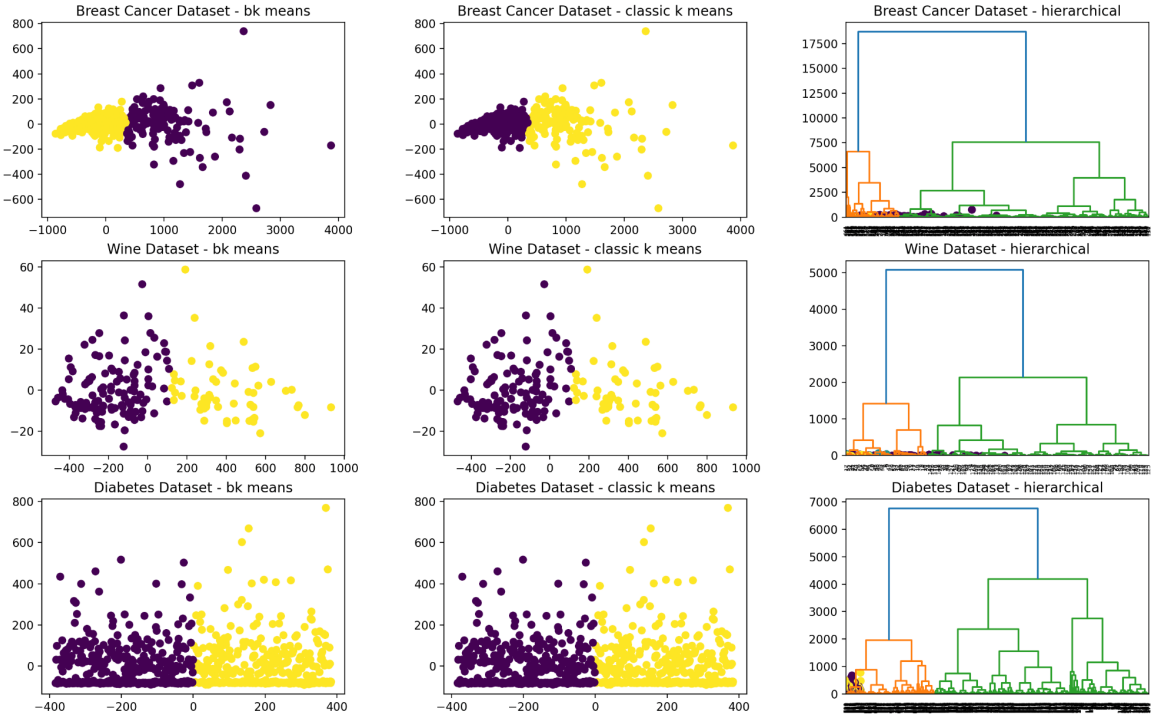
For the 2nd dataset, i think that they all look similar, the only bad part is that sammon once again throws some points around, but keeps it more compact and closer together. I would say t-sne.

For the 3rd dataset (this was the biggest dataset) I think that t-sne once again looks best. PCA has too much clutter by separating them too much, and sammon has them too closely grouped together.

If i need to rank them from best to worst, i would say that T-sne is best, PCA is worst.

The dataset that performed the best across all the algorithms would be breast cancer.

3.2



In my opinion, both bk means and kmeans look almost identical. there are very small differences but overall they have very similar performance. Maybe, if we use a different DR technique we may see some differences? I chose PCA for this one.