Homework 6: Spatial Analysis

PHC 6194: Spatial Epidemiology

**Questions:**

The Alachua county, has experienced a substantial increase in population. Demographic data suggests this increase has occurred because of families moving to the region. It has been decided that a new hospital must be built and as GIS specialist, you have been assigned the task of finding the potential site.

**Solutions:**

To come up with some preliminary alternatives for the hospital site you have identified two simple criteria:

1. The new hospital should not be located close to existing hospitals
2. The new hospital should be built on suitable land use (appropriate land use and slope)

**Datasets:**

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| **Dataset** | **Description** |
| **Elevation** | **Raster dataset representing the elevation of the area** |
| **Landuse** | **Raster dataset representing the land-use types over the area** |
| **Hospitals** | **Feature class representing the existing hospitals in the region** |

Please follow the tutorial and find the best locations for this hospital. Please export the final map as image and insert the image in this document for grading. Please export the image of the model which you create for the work and submit the image too.