

### Q9 Report:



Original



Global Histogram equalised

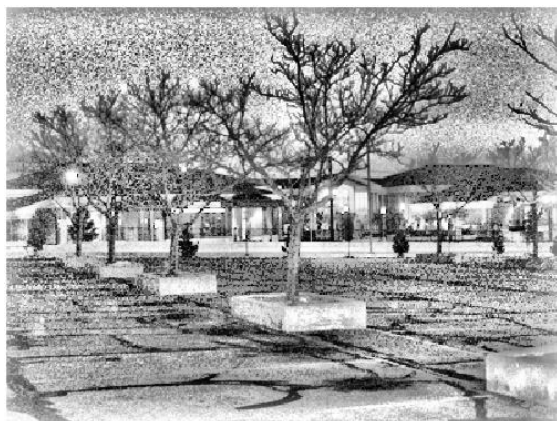
### Local Histogram equalised images(specified with neighborhood size):



7 x 7



31 x 31



51 x 51



71 x 71

In local histogram equalization, it's easier to spot objects in the background which have a relatively lower intensity compared to the rest of the image. There, it produces better local contrast than global histogram equalization

The outlines of objects are also more clearly visible in the locally equalized images.



**LC2:**



Original



Global Histogram equalized

**Local histogram equalization with different filters:**



7 x 7



31 x 31



51 x 51



71 x 71

The local method produces better contrast at trees in the back where, the intensity doesn't vary much locally in the original and globally equalized images. It also has produced higher contrast at the bottom near the snow.