

COSC 455 Digital Image Processing
Homework 2
Quantization/Sampling

1. Using chronometer image produce the following resampled images

- Resampled 2
- Resampled 4
- Resampled 8
- Resampled 16
- Resampled 32

Write a python program to do the resampling, don't use the libraries

2. Using the Dollar image produce a plot for each bit planes (8 different images)

Write a python program to replace the bit planes, don't use the libraries

3. Using numpy **arrays** and numpy matrix operator **outer** create a grayscale chart