

a) **How to run:**

- 1) Compile the code using the following command:

nvcc `pkg-config --cflags opencv` main.cu `pkg-config --libs opencv` -o main.out

- 2) Execute the code with the below command

./main.out 100.jpg

The code was built and tested on design.cs.rutgers.edu

- 3) The following three output files will be created in the same directory as the code is placed.

- i. greyscale_output_serial.png
- ii. greyscale_output_opencv.png
- iii. greyscale_output_cuda.png