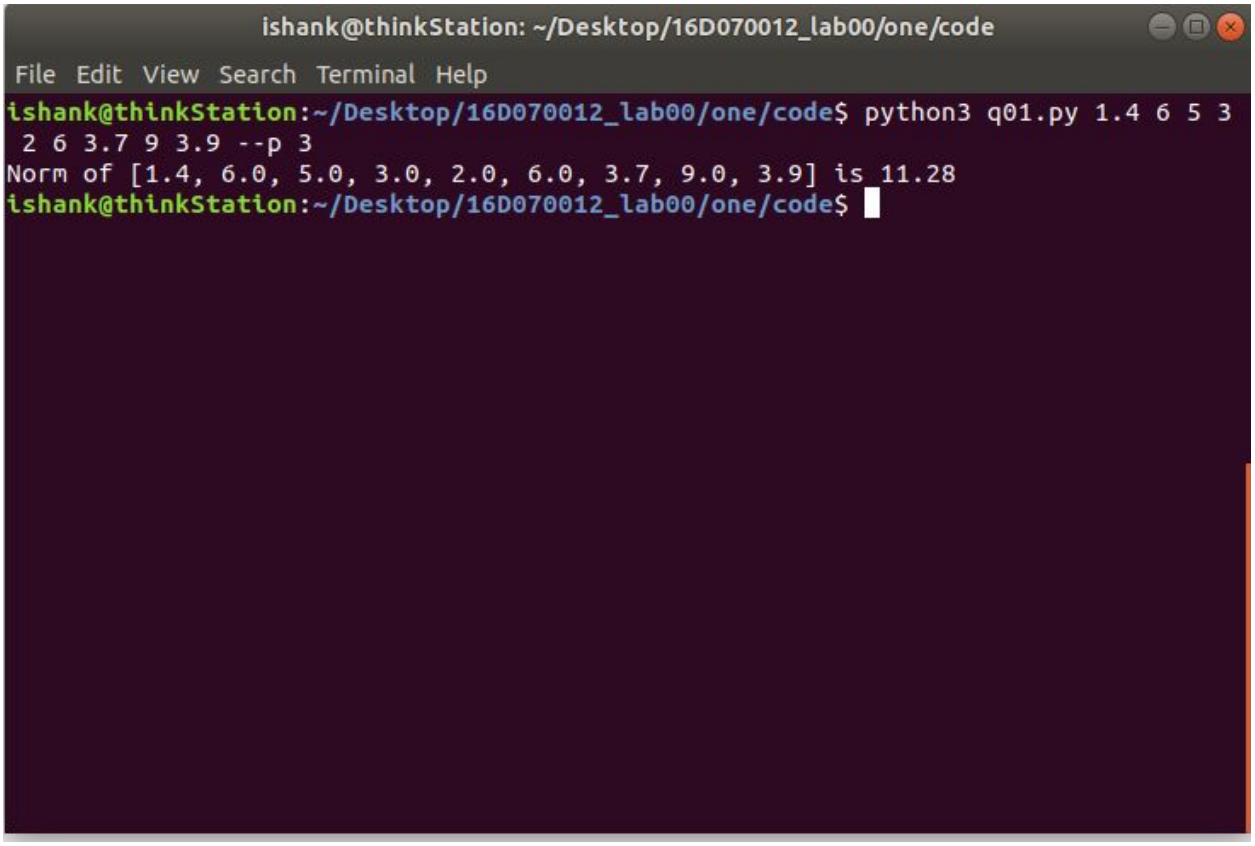
Was a simple problem to solve.
Went through online tutorial on argparse since hadn't since parsing command line lists before.
Then verified the working of the code using the given and a few additional test cases.

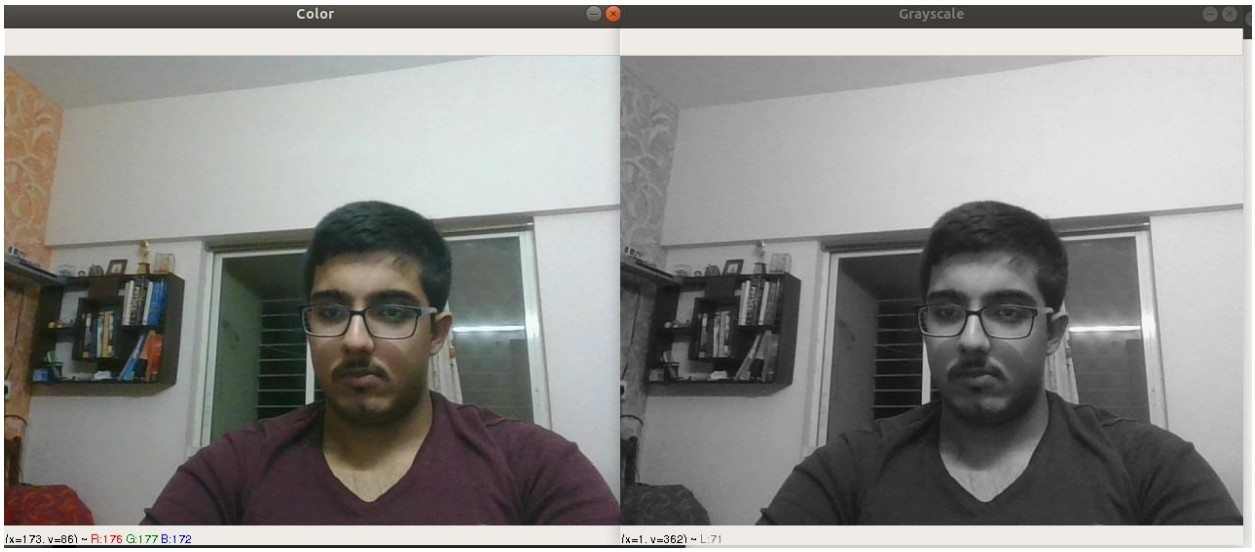
Sample Run



What I learnt
Argparse simplifies passing command line arguments of variable length and generating appt.
Error messages.

Problem involved use of openCV and matplotlib plotting/image viewing functionality

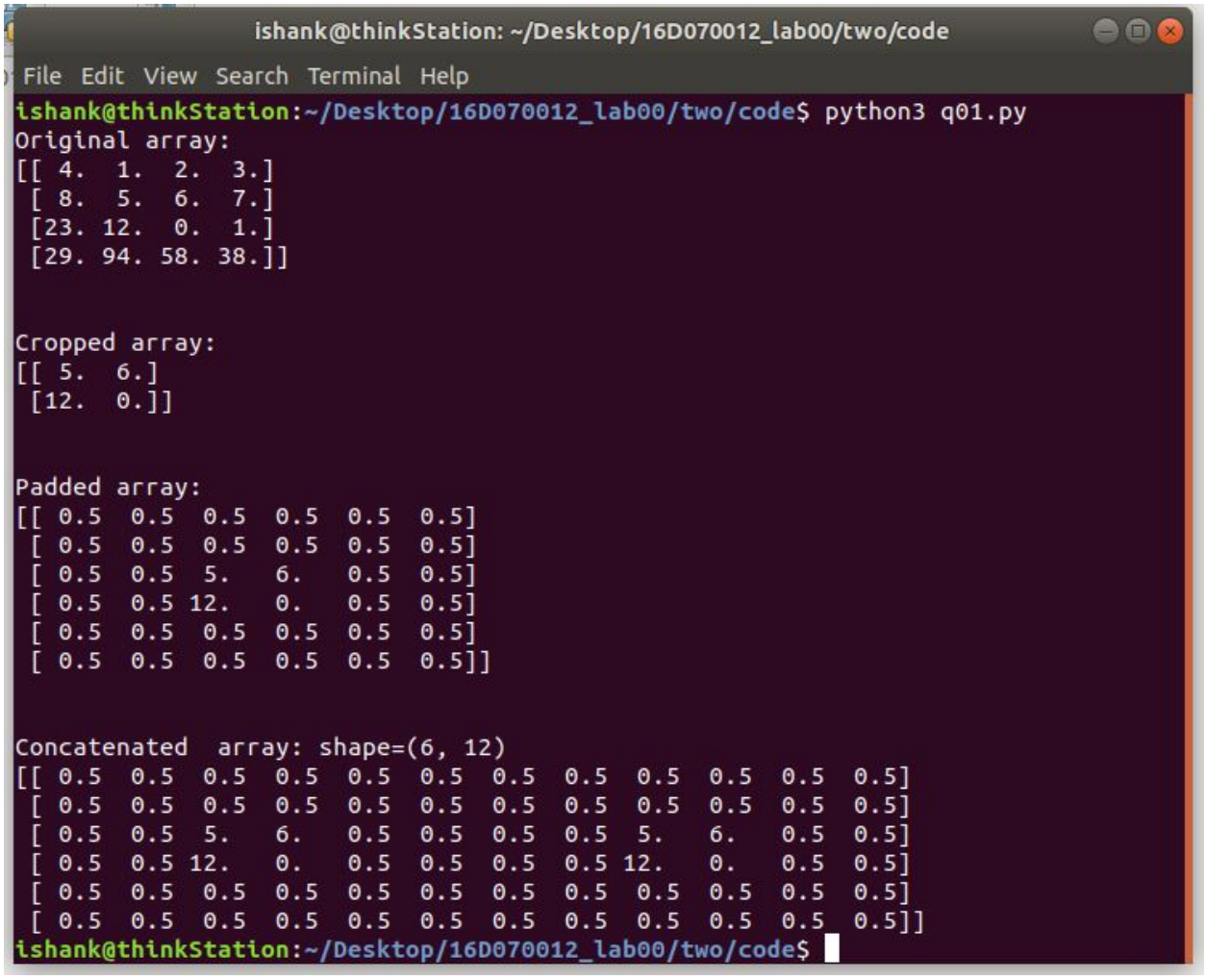
Sample Run for Video capture from webcam, for other parts it was interactive



What I learnt
OpenCV has a lot of built-in functions for quick image processing tasks.
OpenCV uses BGR ordering of frames while matplotlib uses RGB, it is crucial to convert to right format before displaying/processing images

Problem involved some straightforward numpy manipulations.

Sample Run



What I learnt
Numpy is a useful tool for DIP and CV manipulations