# **Worksheet 2 – Further Matrix Operations**

1. **Colour splitting**

Write a program which reads/loads an RGB image and displays the red, green, and blue channels separately, each one of them as an RGB image.

1. **Image Brightening**

Write a program which loads an RGB image and brightens each pixel by a value of 5 (current brightness + 5). Do this by applying an addition operation between a matrix and a scalar.

1. **Image trimming**

Write a program which loads an RGB image and trims out a margin of 20 pixels from all around the image. Do this by using the colon notation. Display the new image.

1. **Image flipping**

Write a program which loads an RGB image and flips it both vertically and horizontally. Do this by using the colon notation. Display the new image.