# INT3404E 20 - Image Processing: Homeworks 1
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## 1 Goals

The goals of this homework are:

**1.1** Learn basic Python, the structure of Python programs, and common libraries such as Numpy, OpenCV, Matplotlib, etc.

**1.2** Get used to the Google Colaboratory and Virtual Environments such as Anaconda

**1.3** Document with Latex, code version control with Github

## 2 Preparatory Readings

Before attemp the exercises, read through Python, Numpy and Matplotlib tutorials

## 3 Exercises

### 3.1 Basic python

My answer for the exercises are submitted on UET courses website.

### 3.2 Google Colaboratory

Submitted

### 3.3 OpenCV, Numpy, Matplotlib, and Latex

The results are shown below:

Figure 1: This is original image.



Figure 2: This is Grayscale Image.

Figure 3: This is Grayscale rotated Image.