

## **2812ICT: Lab week 4**

### **Perform the following exercise in Jupyter notebook**

1) OpenCV provides a function for 2D convolution **cv2.matchTemplate()**.

We will use this function to implement a simple face detection algorithm based on the idea of template matching covered in class. Apply your algorithm to detect faces in the given images. Your face detection algorithm should be able to handle frontal faces of (slightly) varying size in the given images. Can you detect all the faces in the given images?

### **What to hand in:**

Use the link provided on L@G to hand in your work by the end of the week. Programming work should be done in Python, using Jupyter notebook, for code, results, and documentation.