# Lab 2. Task 1- preparation task Template for answers

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*Submission date:*

*Version (in case you need to re-submit):*

## **Testing different box filters**

**1)** Image1:

**2)** Image2:

**3)** Does the box filter have a lower or higher cutoff frequency than the box filter? Explain why!

**4)** What is the reason for these dark borders in Image2?

**5)** Image3:

**6)** Image4:

**7)** Why is so dark? What is the average value of the pixel values in ? And why?

**8)** Image5:

## **Testing Sobel filter kernels and gradient**

**9)** Image6:

**10)** Image7:

**11)** Image8:

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