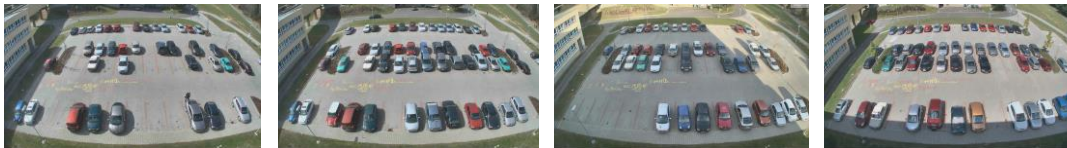


# Exercise

## Opencv Basics (2p)

1. Read all parking images from folder using OpenCV

[http://mrl.cs.vsb.cz/data/vyuka/zao/parking\\_images\\_cv01.zip](http://mrl.cs.vsb.cz/data/vyuka/zao/parking_images_cv01.zip)

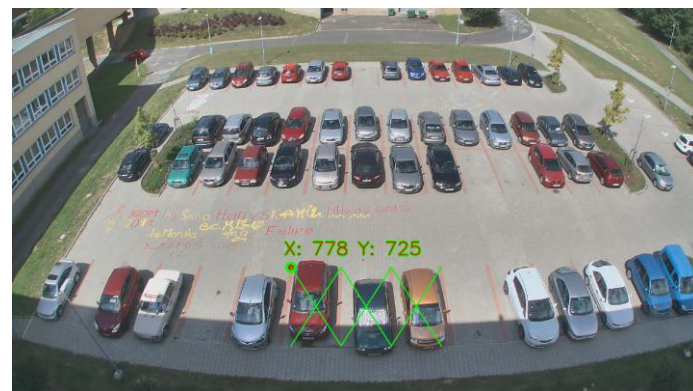
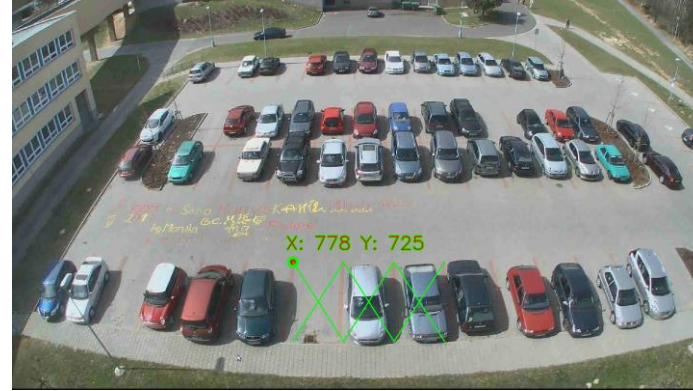
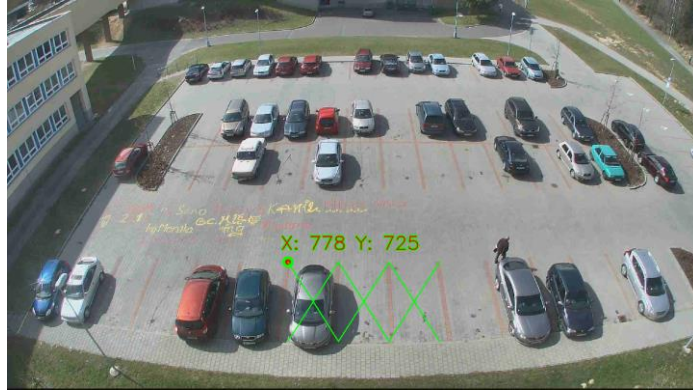


2. In each image, extract three parking spaces (from first row), starting point is  $x1 = 778, y1 = 725$   
set size of each extracted parking space to  $w = 140, h = 220$



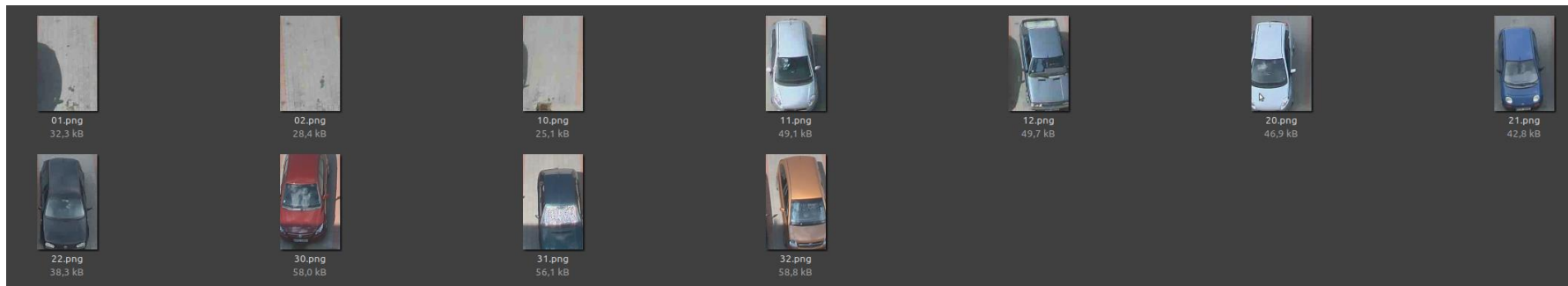
# Exercise - 01

Visualization of the particular spaces is shown in following images:



# Exercise - 01

3. save all extracted images into new folder "cropped"



HINT:

one loop - over images in folder

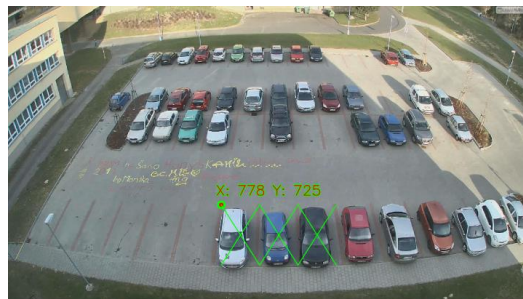
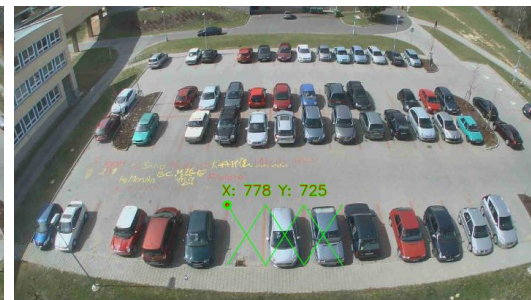
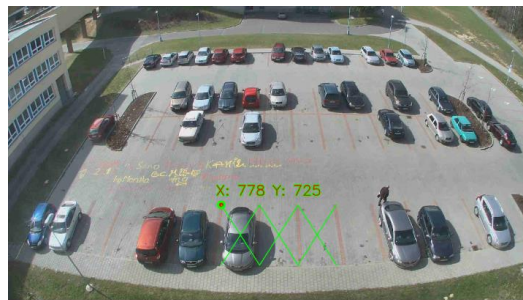
second loop - over parking places (increment the appropriate coordinate)

# Exercise - 01

4. show all extracted parking places in one image (e.g. using subplots via matplotlib) + create a visualization (e.g. using green lines) of these parking spaces



matplotlib



visualization