# **Assignment 1**

2025. 02. 06

#### □ Problem

Make a python code to stream grabbed frames from an IP camera. The network protocol to control / communicate with IP cameras typically use RTSP (Real Time Streaming Protocol).

The IP camera can be available to access on the company IP network.

O IP Camera Information

> IP Address: 192.168.200.132

> ID: admin

> Password: 1234567s

> Suffix: /Streaming/Channels/101

RTSP Protocol Address Convention

rtsp://{ID}:{Password}@{IP Address}:554/{Suffix}

> Example

rtsp://admin: admin @192.185.121.009:554/profile2/media.smp

#### Development Environment

○ Language: Python 3.12

Please make the other environment for assignments.

Library

There are no determined libraries.

### □ Request

- O Avoid using generative AI systems(chat-bot) when you make the method for solving this assignment.
  - > However, it's welcome to find the specific methods or the usage of the methods. Because this assignment is to know how to solve the problem and your problem-solving style, please provide all your own results.
  - > You can submit multiple results if you make multiple solutions.
- Put the following comment for providing the code information in front of the code.

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File Name: {\*.py File Name} Created Date: {Today's Date}

Programmer: {Full Name for the Code developer}

Description: {Information of This code}

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## □ Submission

- O Add comments to lines that contain the significant and important function for this assignment.
  - > If you have events occurred while finding the solution, please write all methods.

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- O Make the document containing the following information.
  - > Trial Records during solving the problems
  - > Output Screen Dump
- O Send \*.py file with the file to e-mail (songmho@deltax.ai).
  - > If the output is text in CMD, send the screen dump for the output.
  - > If the output is image, send several example images after archived.
  - > If the output is video, send a video file.
- O Due Date is the end of this week (7<sup>th</sup> Feb.)

If you need more time, you can request it before 7<sup>th</sup> Feb. noon.

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