# ON-boarding Assignment 3

2025. 02. 11

## ❑ Problem

○ Make a python code for streaming multiple IP cameras

Modify the code that was already implemented during the previous assignment. The IP camera can be accessed using the following IP address.

- rtsp://admin:1234567s@192.168.200.132:554/Streaming/Channels/101
- rtsp://admin:1234567s@192.168.200.132:554/Streaming/Channels/201
- rtsp://admin:1234567s@192.168.200.132:554/Streaming/Channels/301
- rtsp://admin:1234567s@192.168.200.132:554/Streaming/Channels/401
- rtsp://admin:1234567s@192.168.200.132:554/Streaming/Channels/501
- rtsp://admin:1234567s@192.168.200.132:554/Streaming/Channels/601
- rtsp://admin:1234567s@192.168.200.132:554/Streaming/Channels/701

The code visualizes 21 streaming views. You can access multiple times for a camera. Moreover, this code contains the method for measuring FPS of each camera and the FPS for each view must be measured.

○ Make a table to summarize the results for measured FPS.

| Camera ID / FPS | Cam 1 | Cam 2 | Cam 3 | … |
|---|---|---|---|---|
| **Case 1** | | | | |
| **Case 2** | | | | |
| … | | | | |

○ Apply methods to make real-time visualization for multiple rtsp communication.

## ❑ Development Environment

○ Language: Python 3.12

Please make the other environment for assignments.

○ Library

There are no determined libraries.

## ❑ Request

○ 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.

```
"""
File Name: {*.py File Name}
Created Date: {Today's Date}
Programmer: {Full Name for the Code developer}
Description: {Information of This code}
"""
```

- **Submission**

  - 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.
  - Make the document containing the following information.
    - Trial Records during solving the problems
    - Output Screen Dump
  - Upload the python file and assignment report to the github repository.
    Make a folder on Submission folder. The naming convention of the folder is as follows

```
Submission
└ {assignment ID} {Submit Date}
```

  - Submission Date: 2025.02.13.