

Home Assignment

You are required to implement a program that identifies blinking light in a video. The program takes the input video via command line parameters.

Below are the implementation guidelines:

1. Write modular and unit testable code.
2. As such the solution needs to adjust different environmental and color variations and adopt corner cases like color brightness or darkness.
3. The program should run on any color of blinking light. So, ideally the detection color should not be hard coded.

For the given video, print the following output:

1. Hex color of the blinked light
2. Number of times the light blinked
3. Time duration for each blinking light in milliseconds
4. Time duration between consecutive blinking lights in milliseconds

Example Output:

Color: #FFFF00

Number of times the light blinked: 5

Duration of each blinking light:

First Time: 10 ms

Second Time: 10 ms

Third Time: 10 ms

Fourth Time: 10 ms

Fifth Time: 10 ms

Duration between 2 blinking lights

First Time: 200 ms

Second Time: 500 ms

Third Time: 500 ms

Fourth Time: 600 ms

Fifth Time: 600 ms