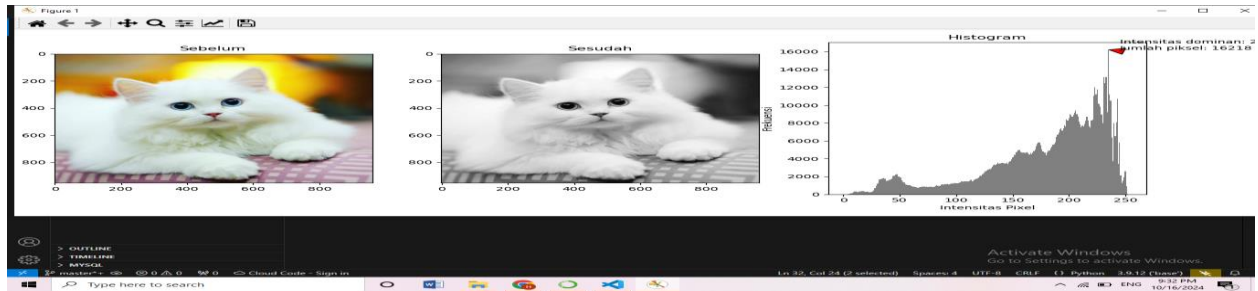


NIM : 20220040239

LINK github: <https://github.com/M-Hisyam-Ahmad-Hasan-Hazmi/Semester5PCG>



2a. Setiap nilai intensitas piksel (0-255) memiliki jumlah piksel tertentu, yang dicatat dalam histogram. Sebagai contoh, ada 16.368 piksel dengan intensitas 235, dan jumlah piksel lainnya bervariasi sesuai dengan histogram yang ditampilkan di atas.

2b. intensitas 235 adalah yang paling dominan dengan 16.368 piksel. Hal ini menunjukkan bahwa sebagian besar piksel dalam gambar cenderung terang, mendekati putih.

The image shows a Windows 10 desktop with a Visual Studio Code (VS Code) editor window open. The editor is displaying a Python script named `negatif.py` in the `SESI3` workspace. The script performs the following operations:

- Imports `imageio`, `numpy`, and `matplotlib.pyplot`.
- Reads an image from `C:/Users/Aspire_Black/Pictures/kuc.jpg` into the variable `img`.
- Converts the image to grayscale using `np.dot` with a specific color transformation matrix.
- Clips the grayscale values to the range `[0, 255]` and converts them to `uint8`.
- Calculates the histogram of the grayscale image with 256 bins.
- Calculates the total number of pixels and the dominant intensity (the value with the highest frequency in the histogram).
- Plots three subplots:
 - The original image (`img`).
 - The grayscale image (`grayscale`).
 - A bar chart of the histogram (`histogram`).

The VS Code interface includes a sidebar on the left with the Explorer, Search, and Run and Debug views. The bottom status bar shows the file encoding as `UTF-8` and the language mode as `Python`. The Windows taskbar at the bottom shows the Start button, a search bar, and several pinned applications including Edge, File Explorer, and VS Code.