

**TUGAS PERCOBAAN 6**  
**PENGOLAHAN CITRA**  
**MK401**



**POLITEKNIK NEGERI** Batam

**Disusun oleh :**  
**Ricky Silitonga (4211901034)**

**PROGRAM STUDI TEKNIK MEKATRONIKA**  
**JURUSAN TEKNIK ELEKTRO**  
**POLITEKNIK NEGERI BATAM**  
**2020**

## IMAGE MATCHING BASED ON RGB HISTOGRAM

Jenis Buah	Hasil Deteksi	Akurasi
matang01	matang	✓
matang02	matang	✓
matang03	matang	✓
matang04	matang	✓
matang05	mentah	✗
matang06	matang	✓
matang07	matang	✓
matang08	matang	✓
mentah01	mentah	✓
mentah02	sedang	✗
mentah03	mentah	✓
mentah04	mentah	✓
mentah05	sedang	✗
mentah06	mentah	✓
mentah07	mentah	✓
mentah08	sedang	✗
sedang01	sedang	✓
sedang02	sedang	✓
sedang03	sedang	✓
sedang04	matang	✗
sedang05	sedang	✓
sedang06	sedang	✓
sedang07	mentah	✗
sedang08	sedang	✓

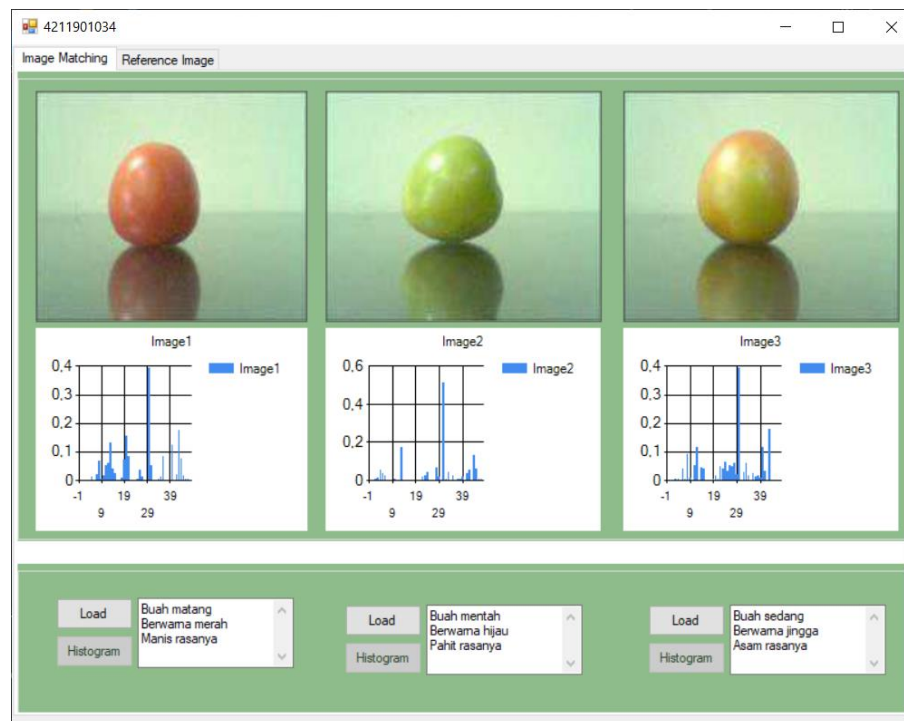
### Akurasi image matching menggunakan histogram RGB

$$\text{akurasi} = \frac{\text{banyaknya buah yang terdeteksi dengan benar}}{\text{banyaknya buah yang diuji}} \times 100\%$$

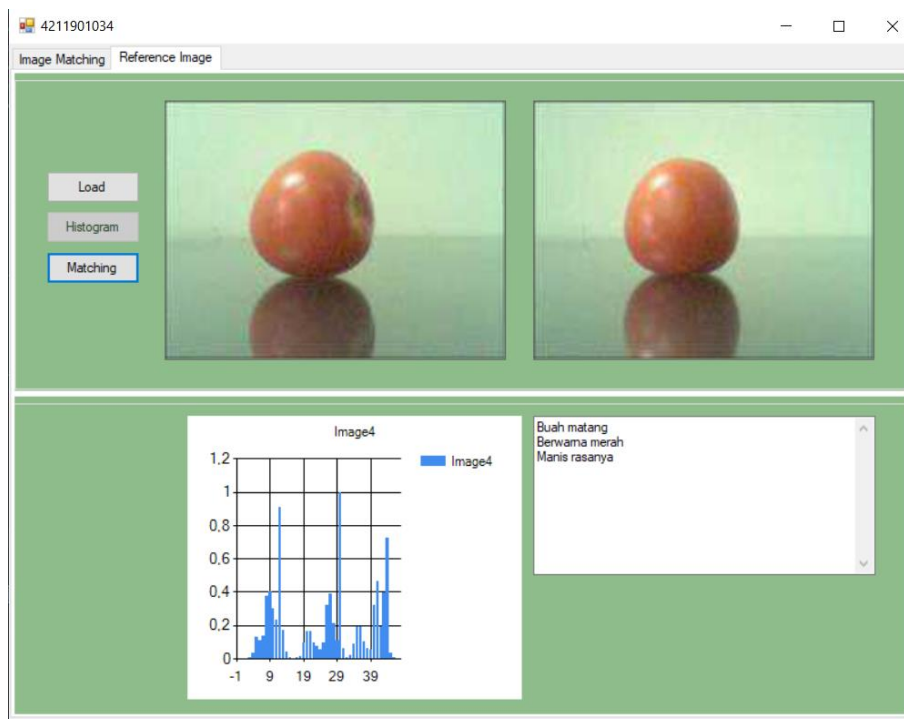
$$\text{akurasi} = \frac{18}{24} \times 100\%$$

$$\text{akurasi} = 75\%$$

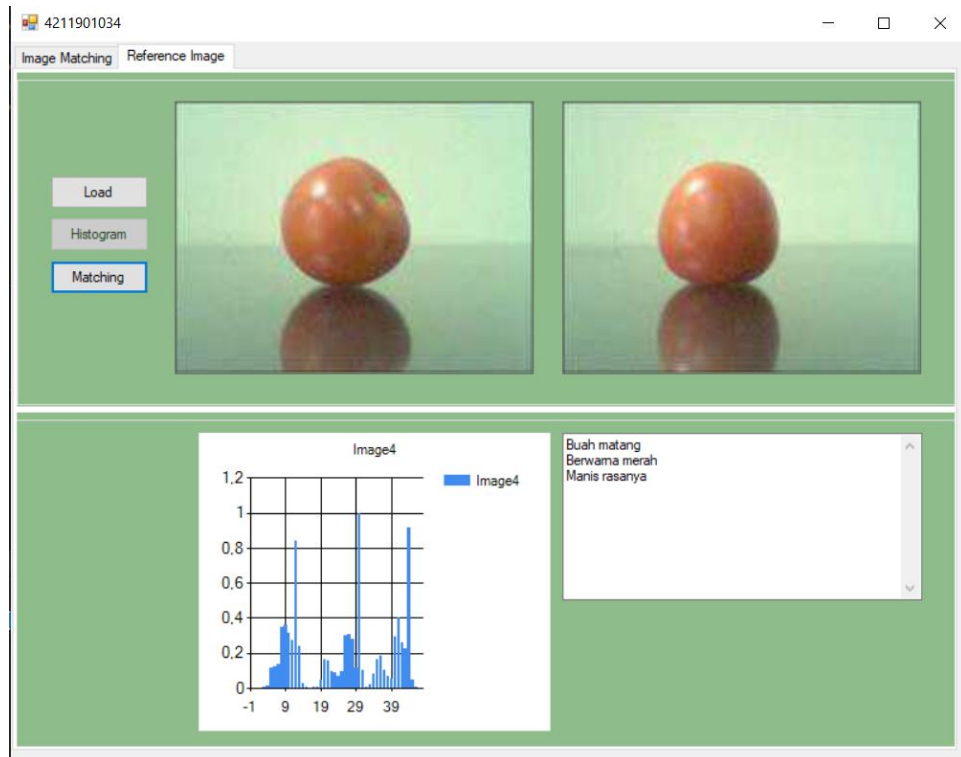
## Screenshoot Program



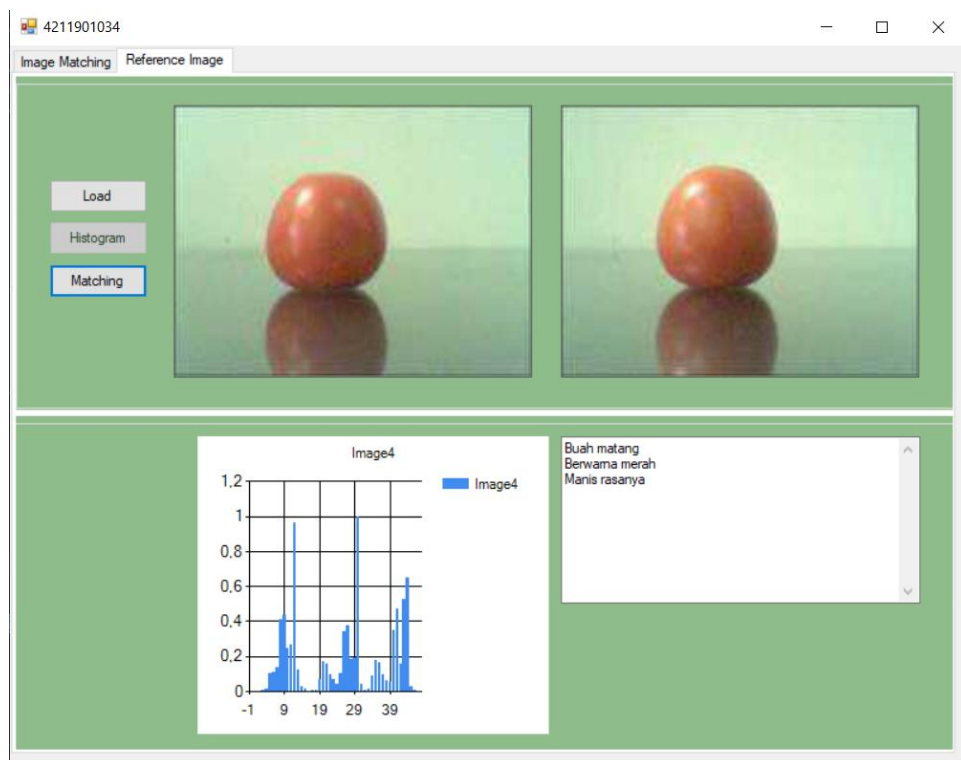
Tampilan awal program



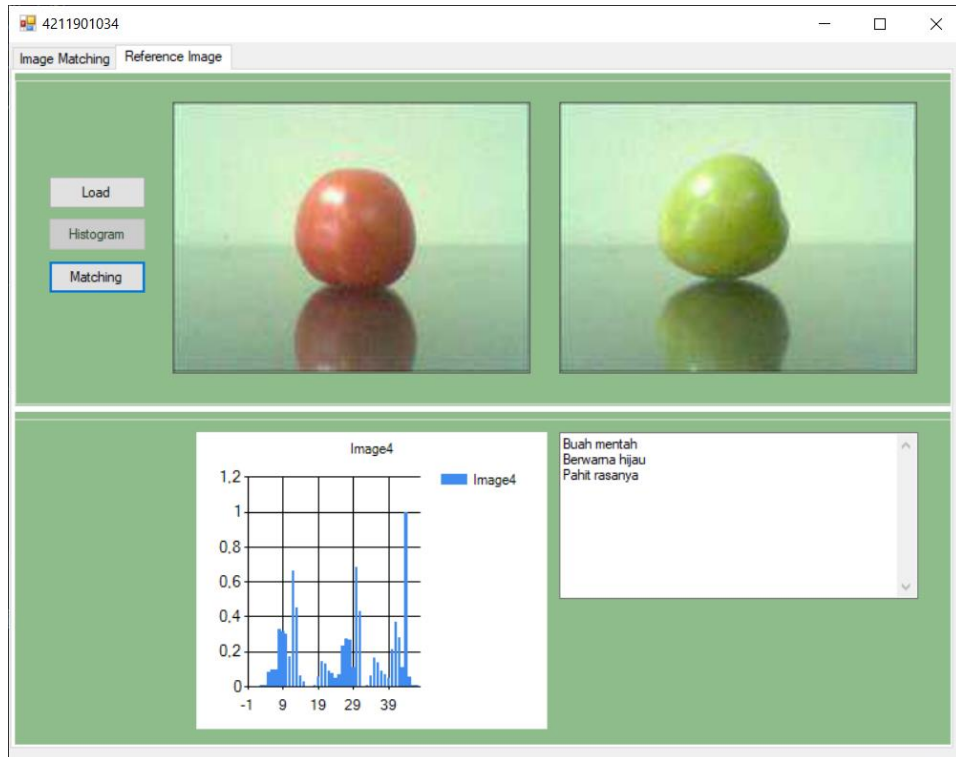
matang02



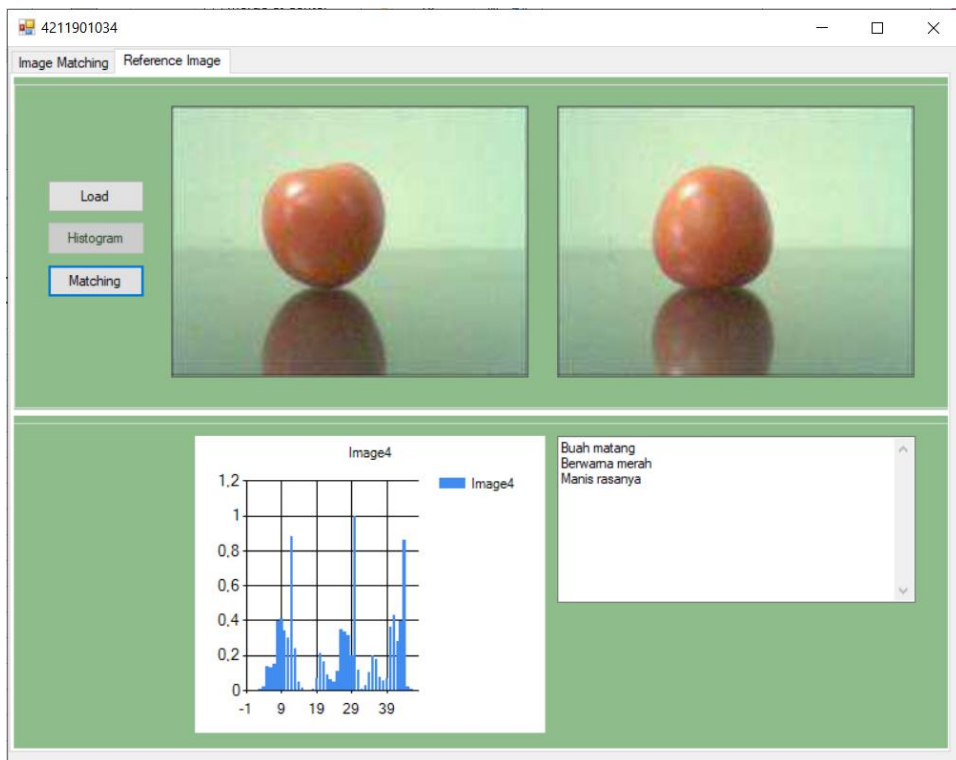
matang03



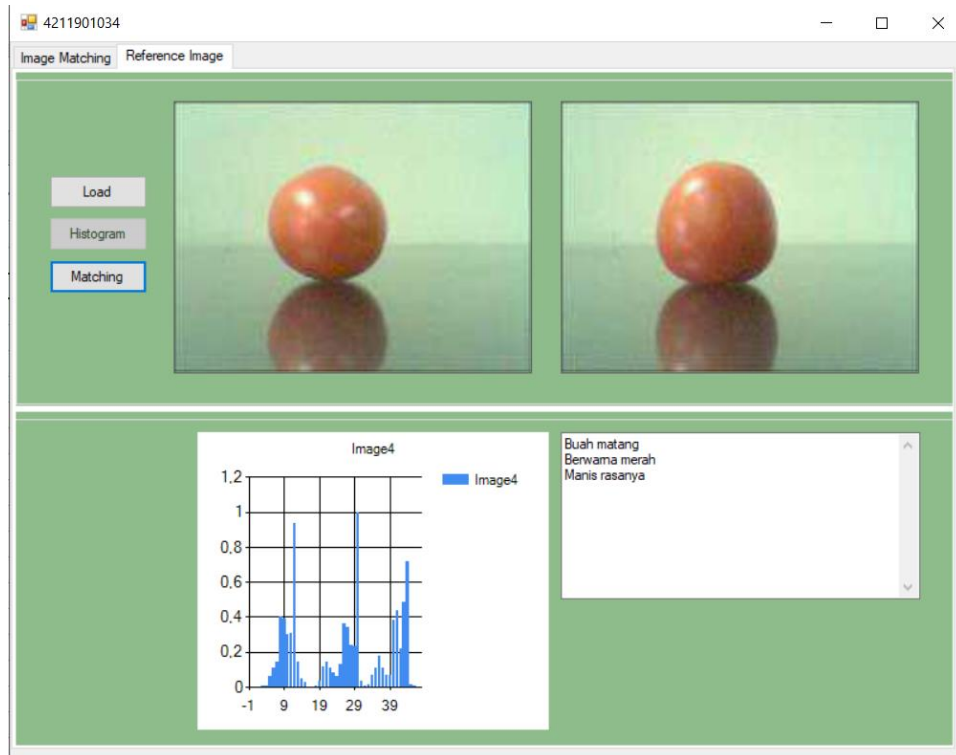
matang04



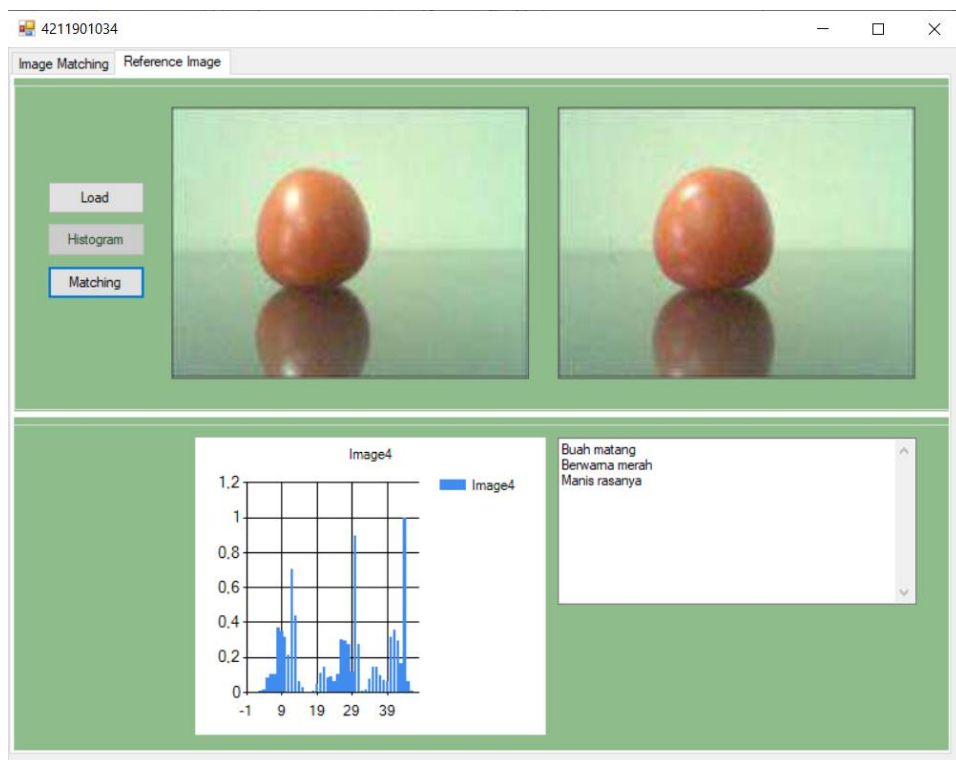
matang05



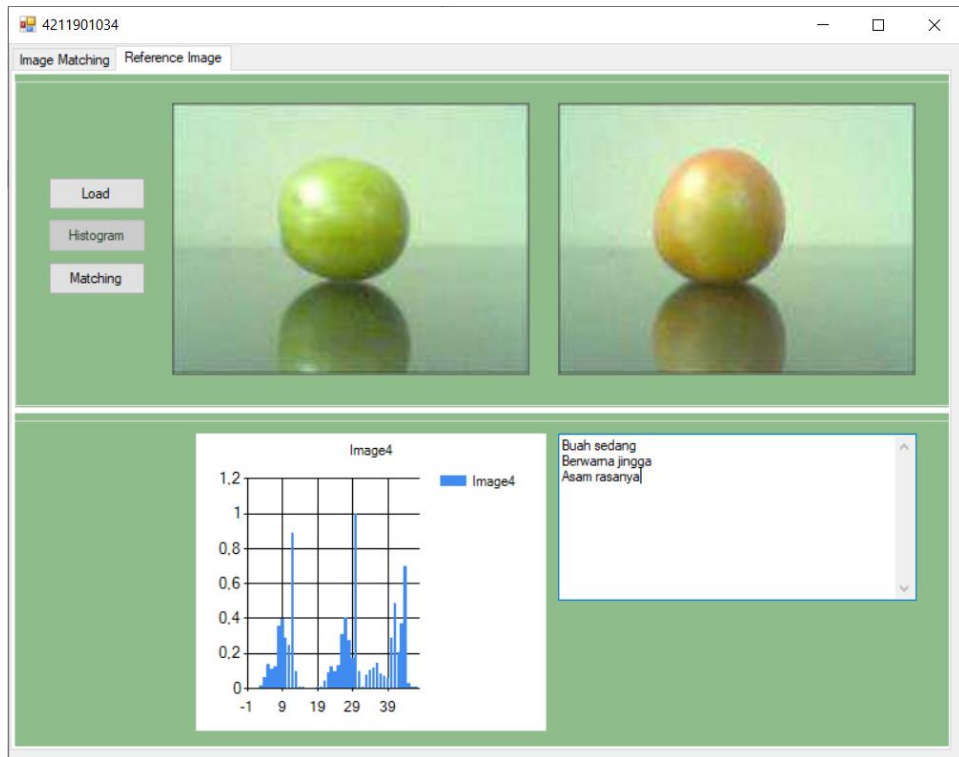
matang06



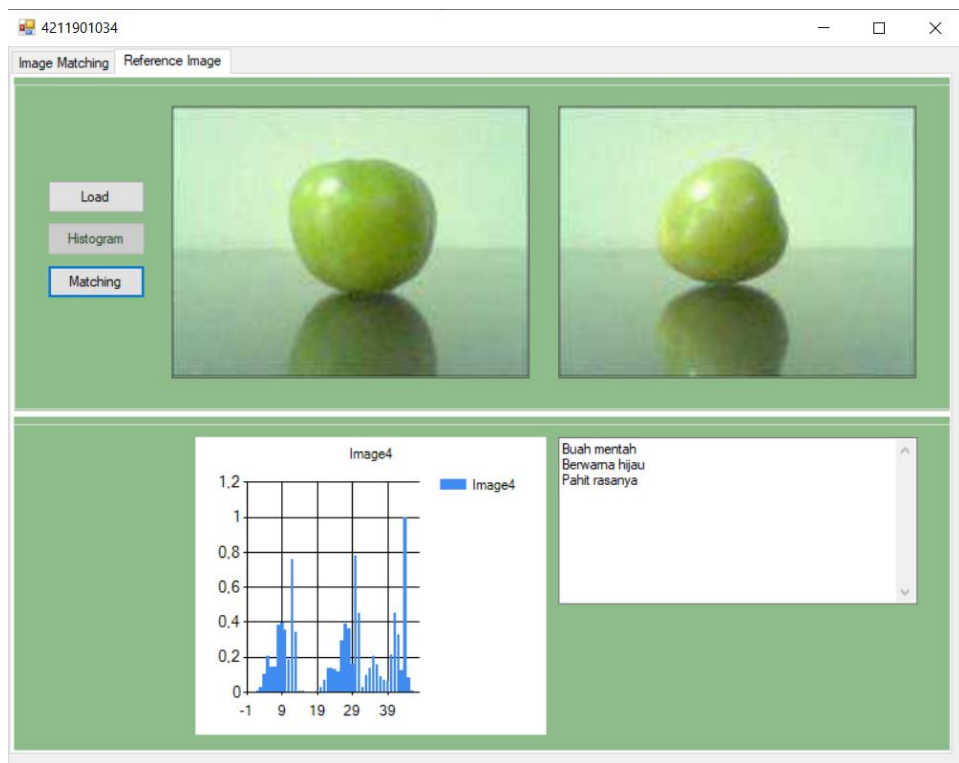
matang07



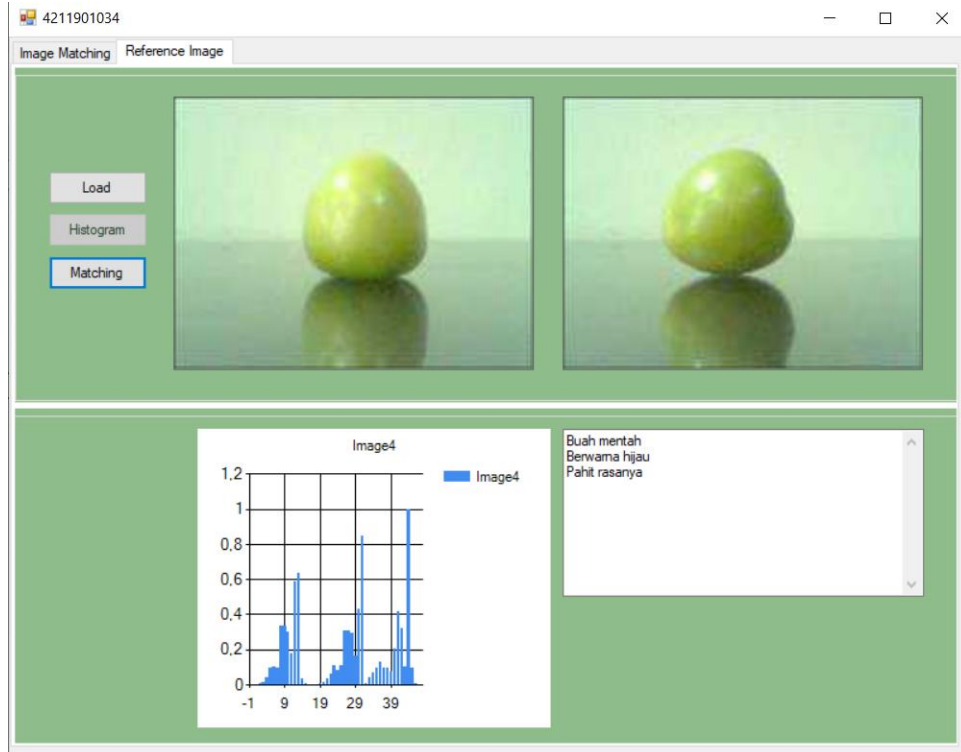
matang08



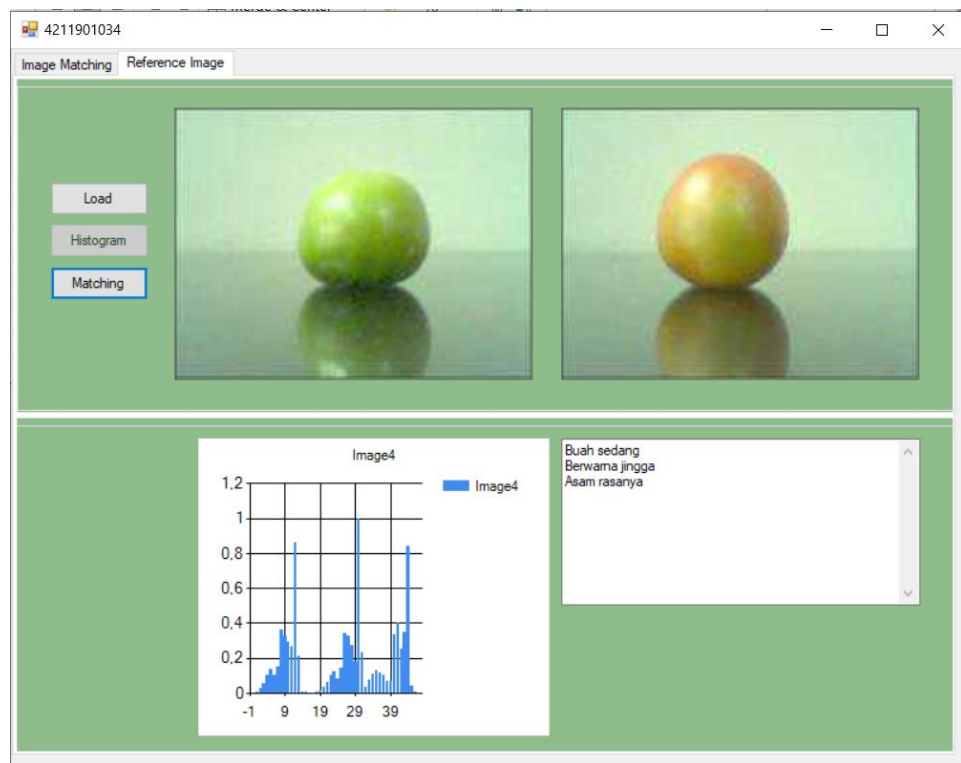
mentah 02



mentah03

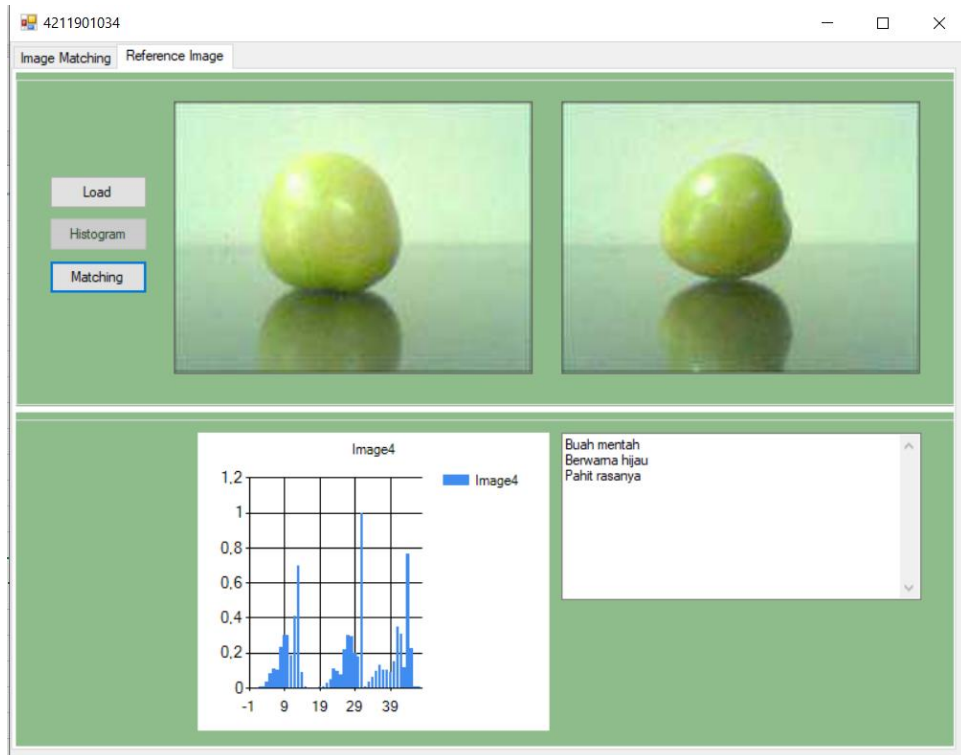


mentah04

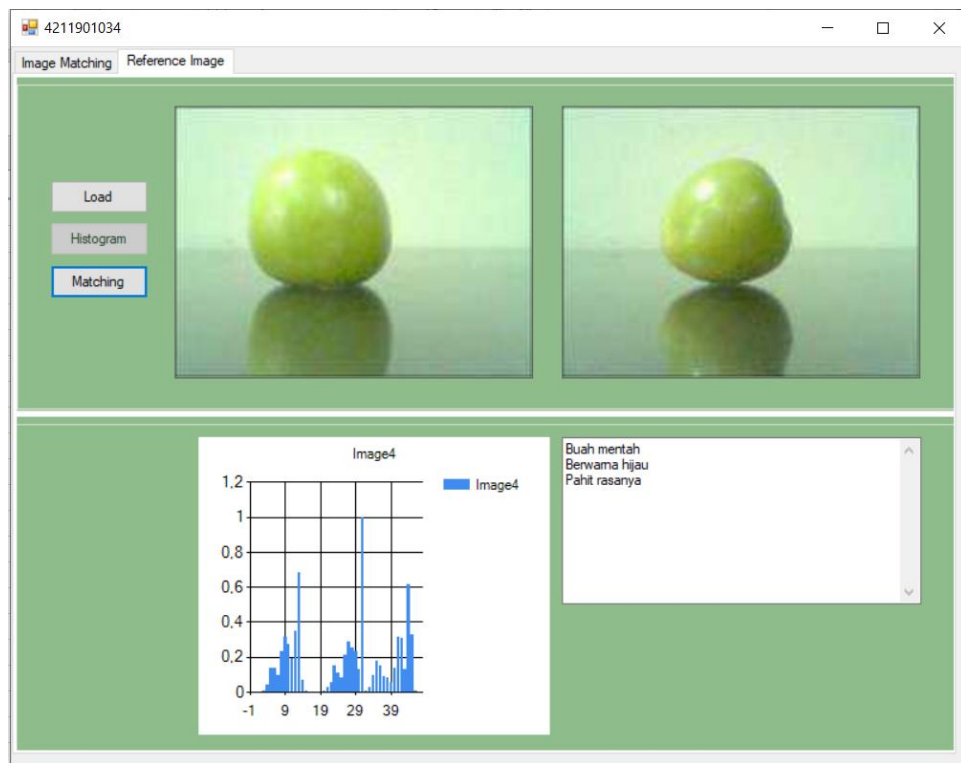


mentah05

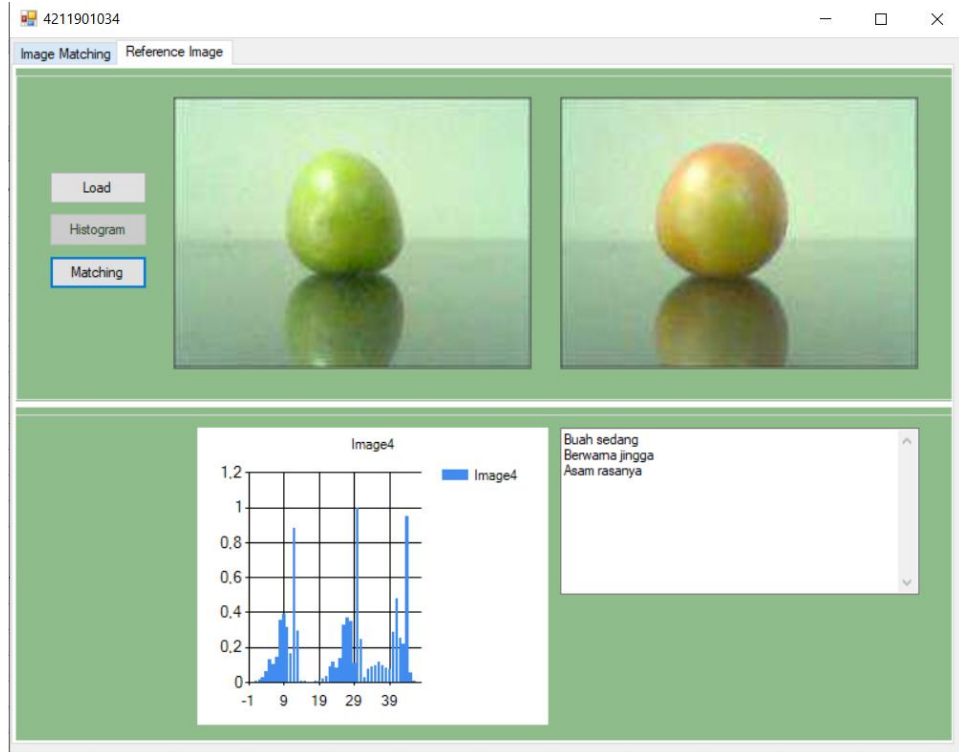




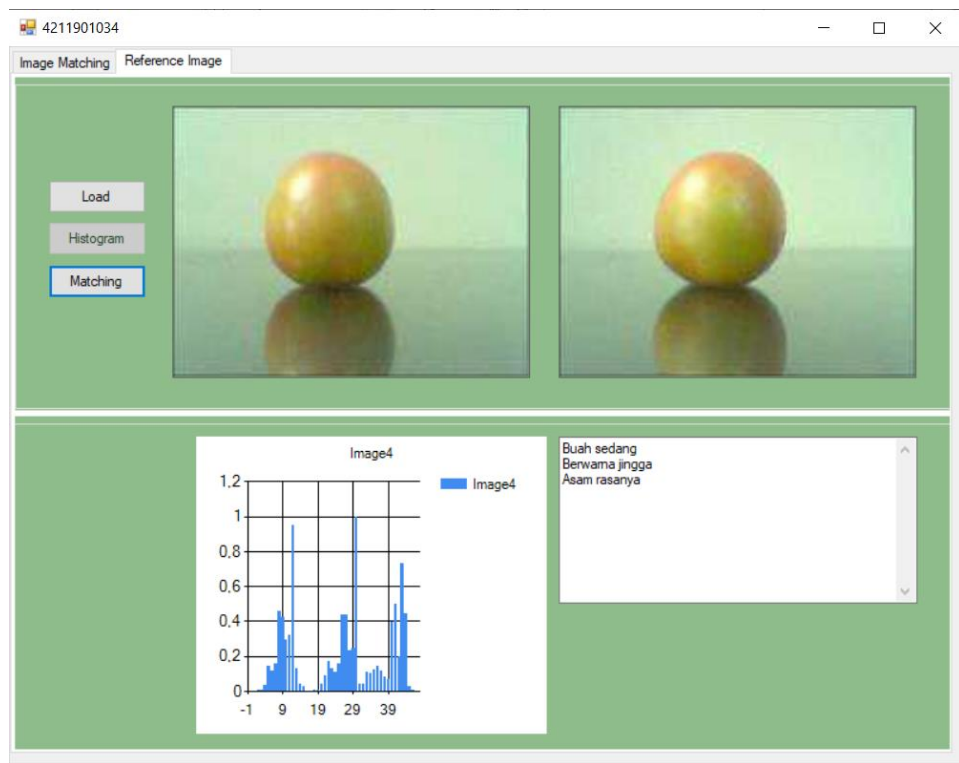
mentah06



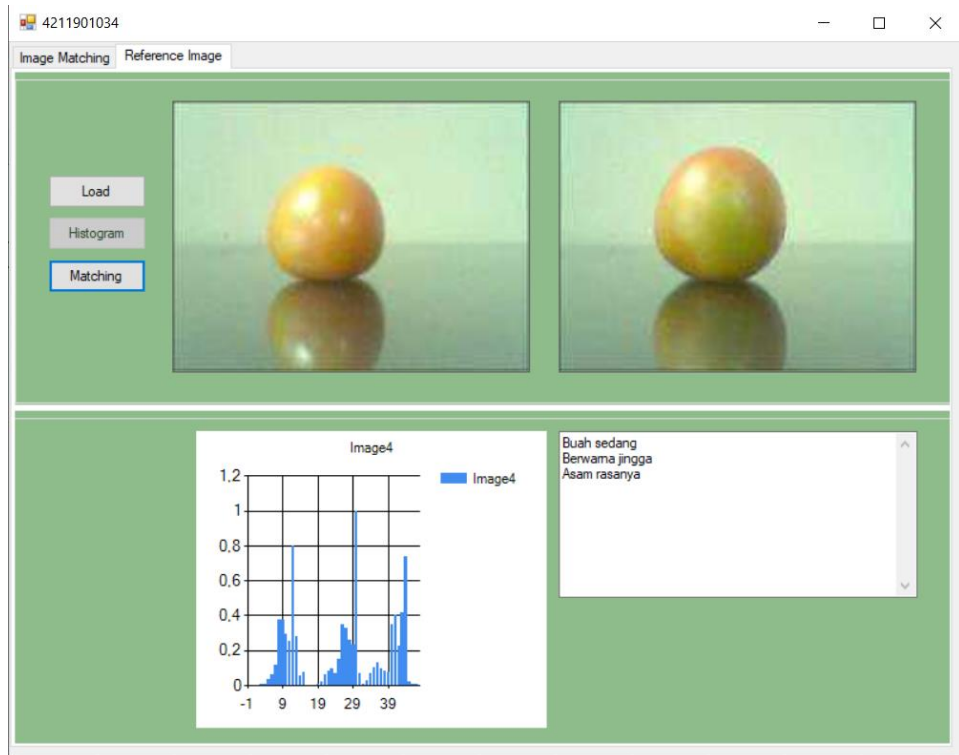
mentah07



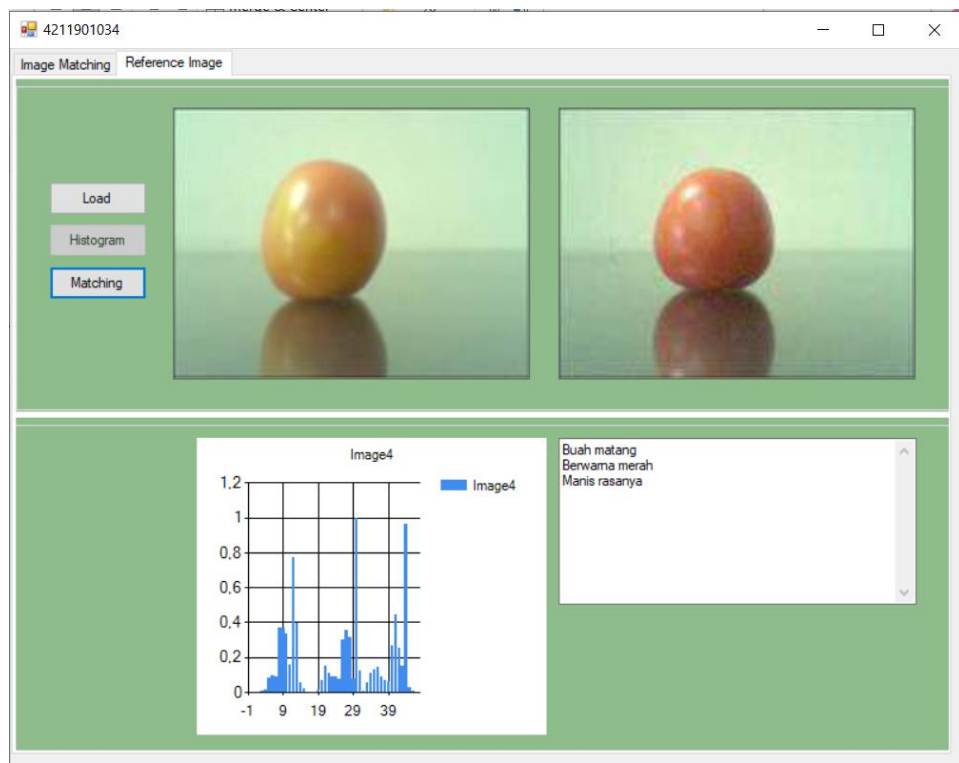
mentah08



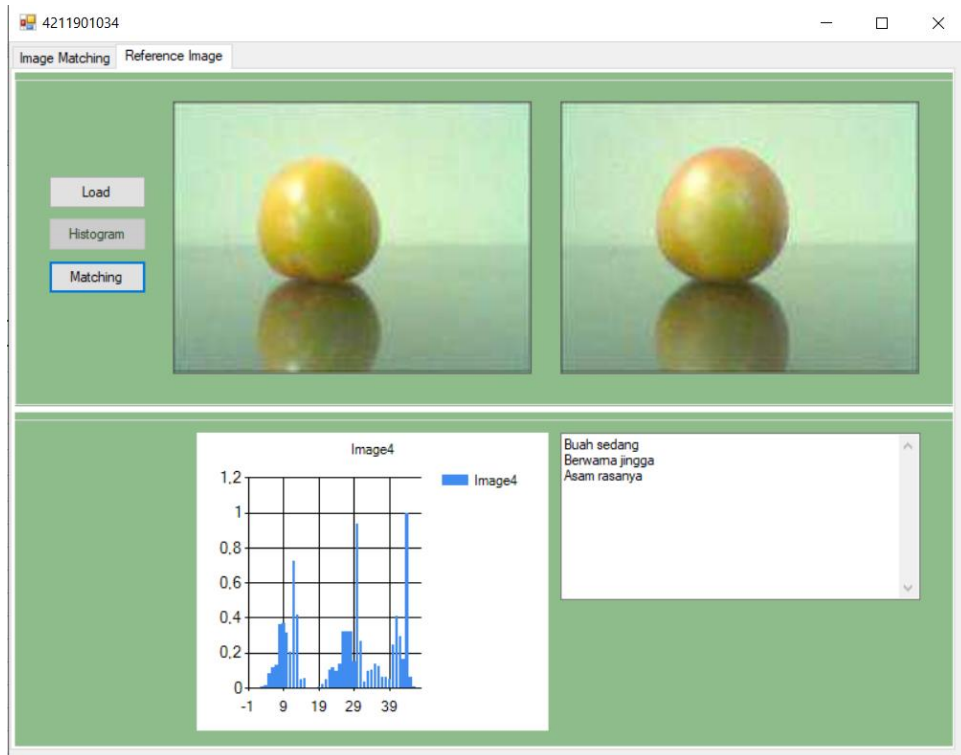
sedang02



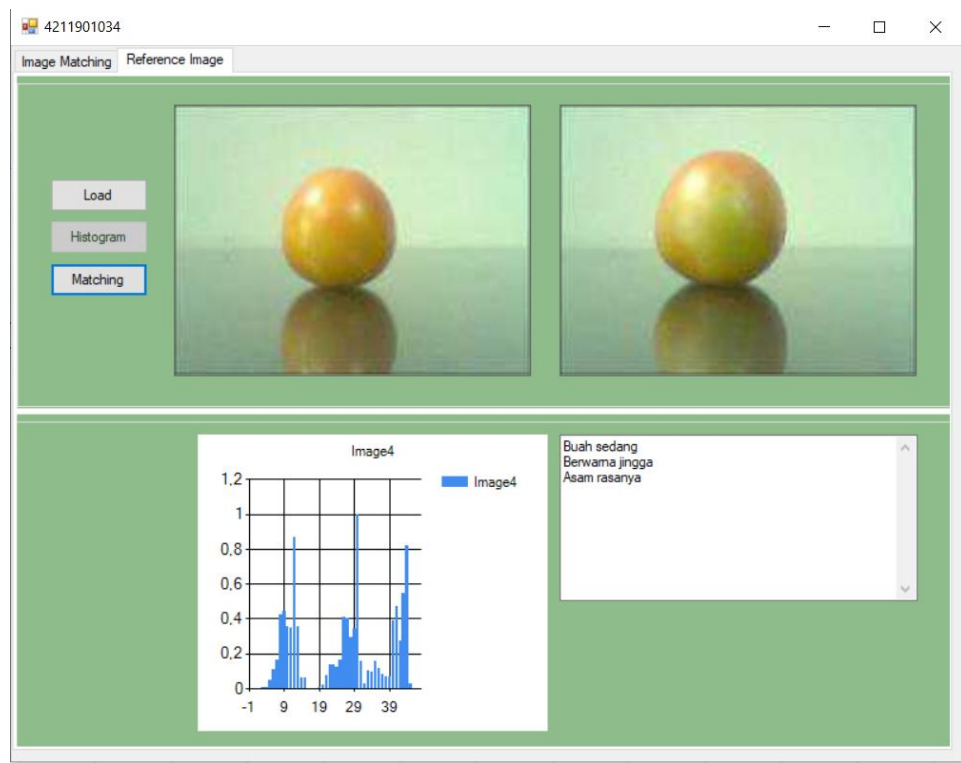
sedang03



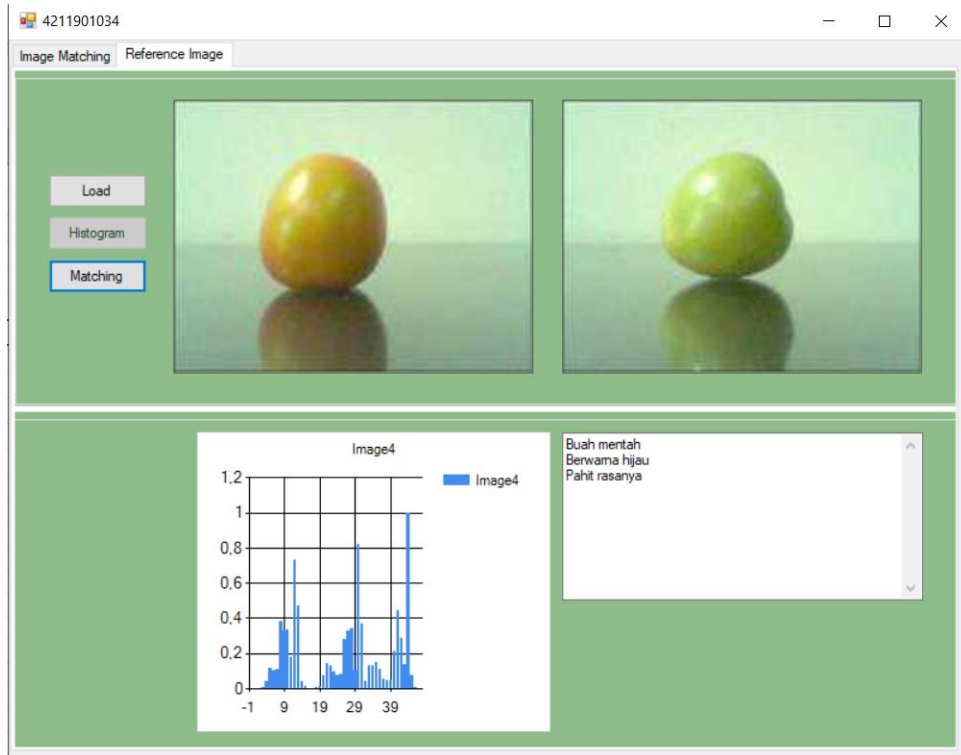
sedang04



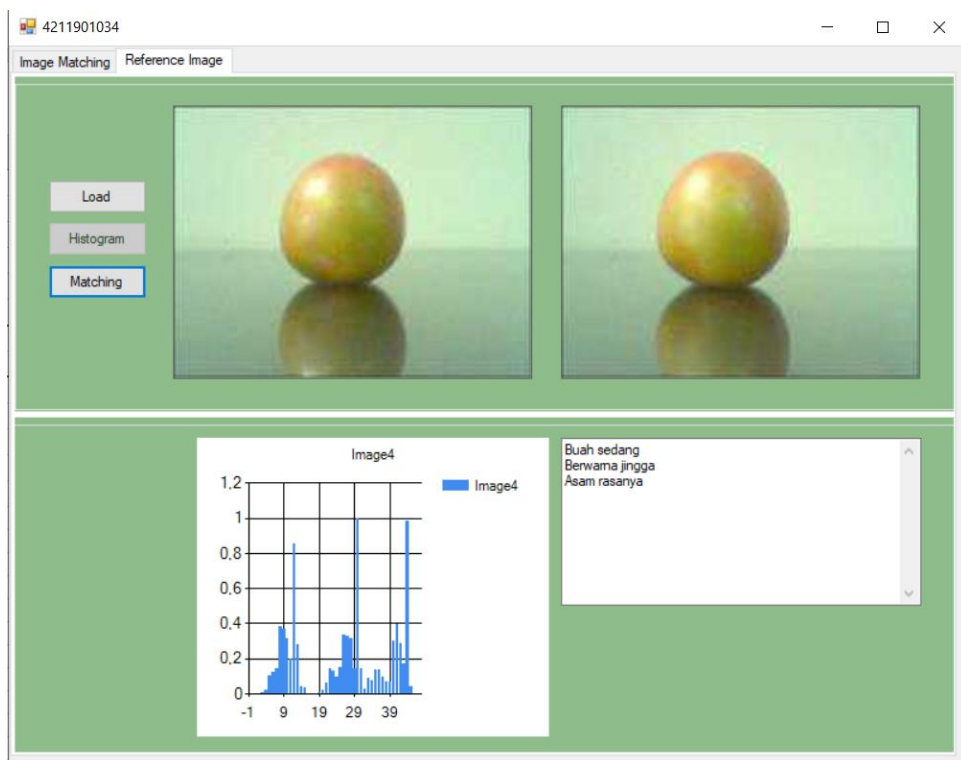
sedang05



sedang06



sedang07



sedang08