




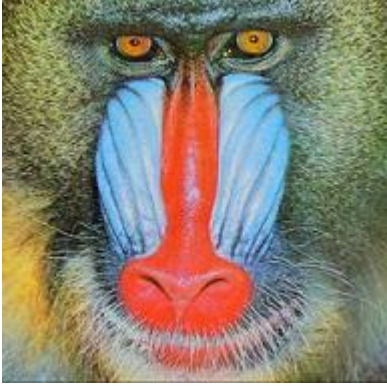
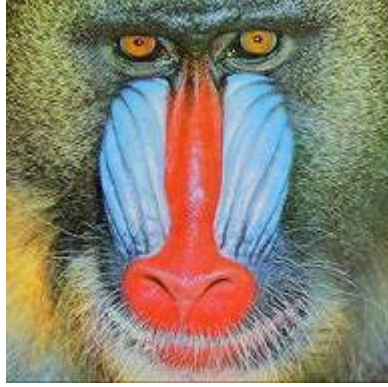

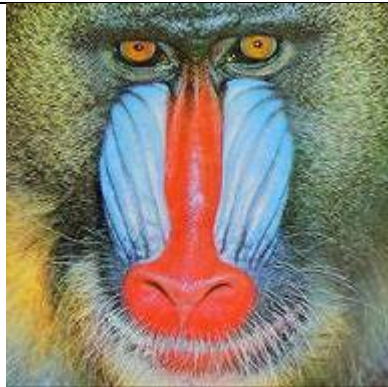

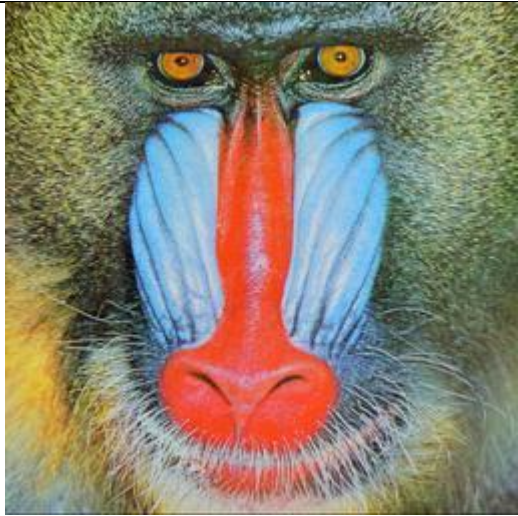
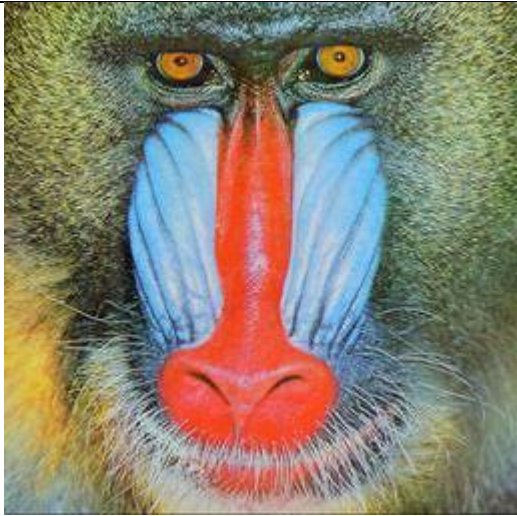
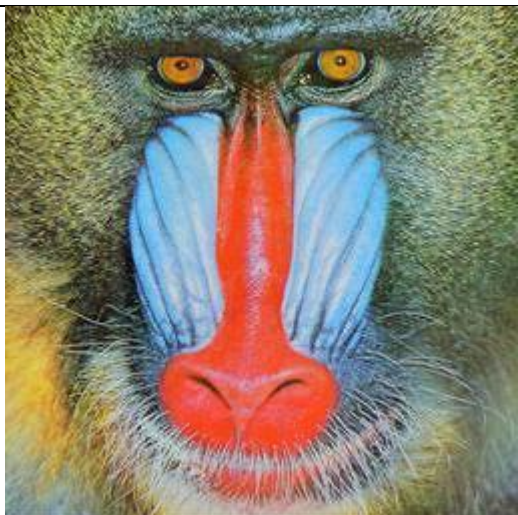
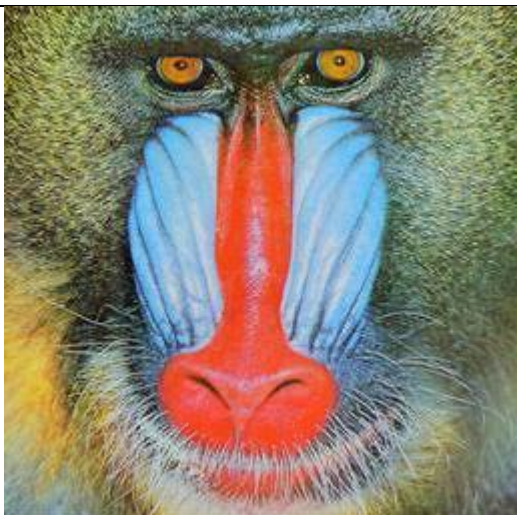
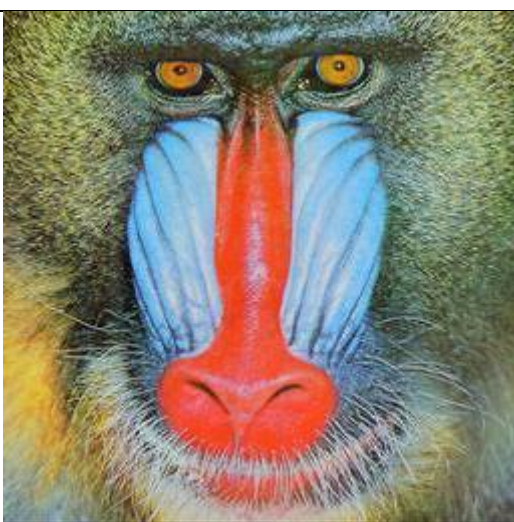


**LAMPIRAN A**  
**CITRA**



**A.1. Cover-image "Baboon.jpg" Sebelum dan Setelah Disisipkan Pesan**

<i>Cover-image</i> 128x128	Pesan 30%	Pesan 60%	Pesan 100%
			
Maksimal			
			






<i>Cover-image 192x192</i>	Pesannya 30%
	
Pesannya 60%	Pesannya 100%
	
Maksimal	
	






<p>Cover-image 256x256</p>	<p>Pesan 30%</p>
	
<p>Pesan 60%</p>	<p>Pesan 100%</p>
	
<p>Maksimal</p>	
	

**A.2. Cover-image "Lena.jpg" Sebelum dan Setelah Disisipkan Pesan**


<i>Cover-image</i> 128x128	Pesan 30%	Pesan 60%	Pesan 100%
			
Maksimal			
			








<i>Cover-image 192x192</i>	Pesan 30%
	
Pesan 60%	Pesan 100%
	
Maksimal	
	




<i>Cover-image 256x256</i>	Pesanan 30%
	
Pesanan 60%	Pesanan 100%
	
Maksimal	
	

**A.3. Cover-image "Water Lilies.jpg" Sebelum dan Setelah Disisipkan Pesan**


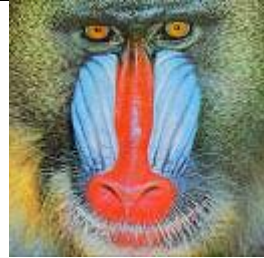
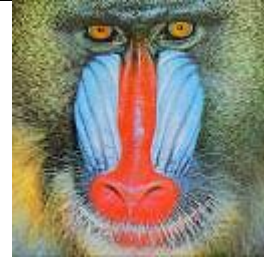
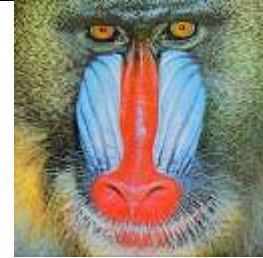

<i>Cover-image</i> 128x128	Pesan 30%	Pesan 60%	Pesan 100%
			
Maksimal			
			

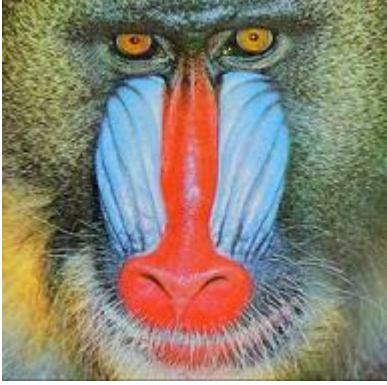
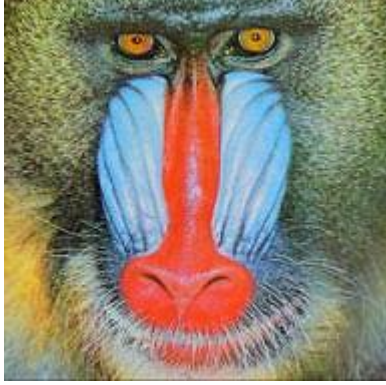





<i>Cover-image</i> 192x192	Pesanan 30%
	
Pesanan 60%	Pesanan 100%
	
Maksimal	
	

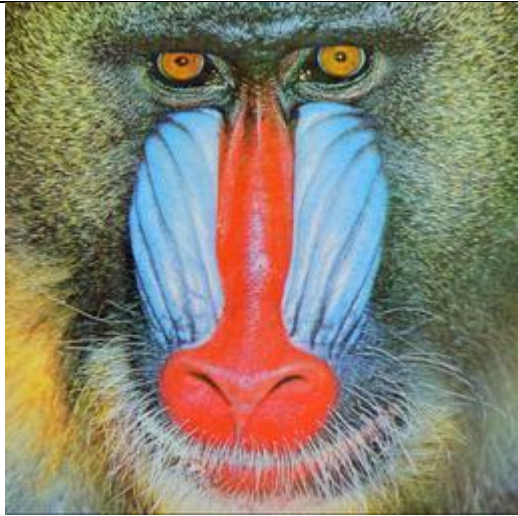
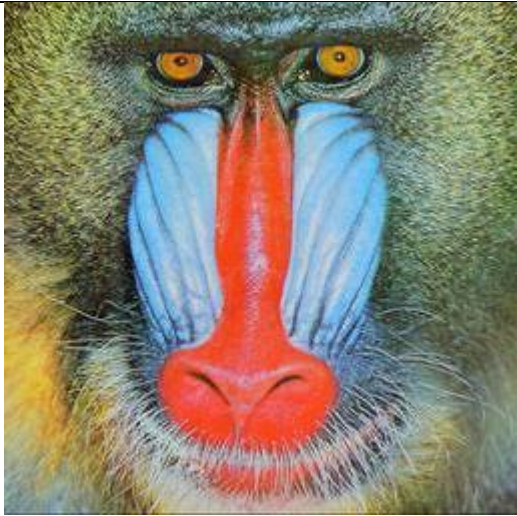
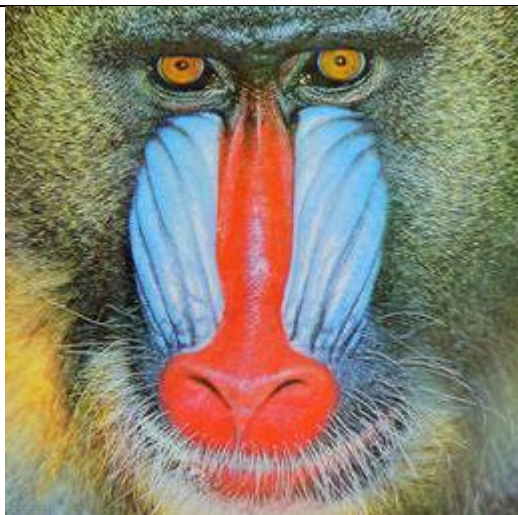
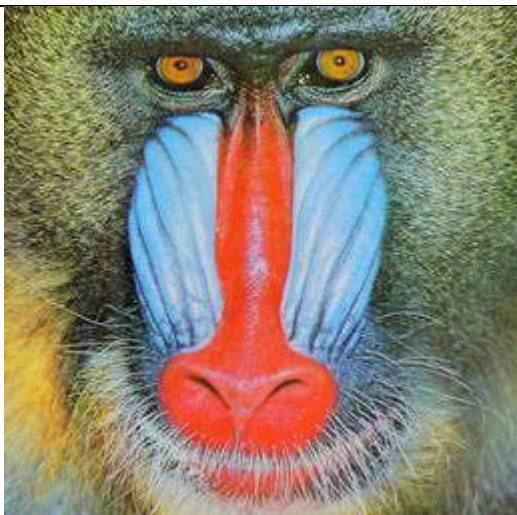
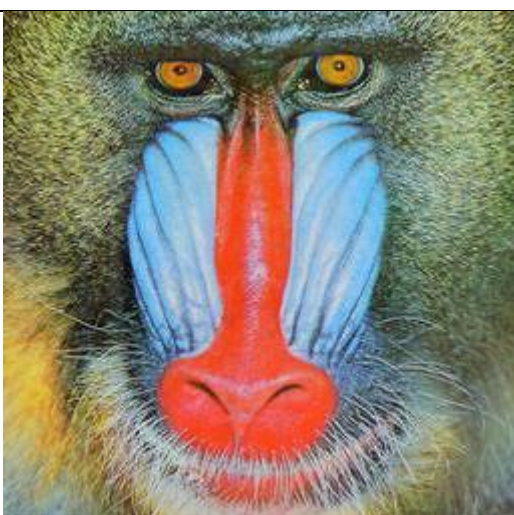
Cover-image 256x256	Pesan 30%
	
Pesan 60%	Pesan 100%
	
Maksimal	
	

**A.4. Cover-image "Baboon.bmp" Sebelum dan Setelah Disisipkan Pesan**

<i>Cover-image</i> 128x128	Pesan <b>95</b>	Pesan <b>190</b>	Pesan <b>281</b>
			
Maksimal			
			


<i>Cover-image</i> 192x192	Pesan 210
	
Pesan 420	Pesan 640
	
Maksimal	
	






<i>Cover-image 256x256</i>	<b>Pesan 390</b>
	
<b>Pesan 780</b>	<b>Pesan 1172</b>
	
<b>Maksimal</b>	
	




**A.5. Cover-image "Lena.bmp" Sebelum dan Setelah Disisipkan Pesan**






<i>Cover-image</i> 128x128	Pesan <b>80</b>	Pesan <b>160</b>	Pesan <b>244</b>
			
Maksimal			
			

<i>Cover-image 192x192</i>	Pesannya 160
	
Pesannya 320	Pesannya 490
	
Maksimal	
	



<i>Cover-image 256x256</i>	Pesannya 265
	
Pesannya 530	Pesannya 808
	
Maksimal	
	

**A.6. Cover-image "Water Lilies.bmp" Sebelum dan Setelah Disisipkan Pesan**

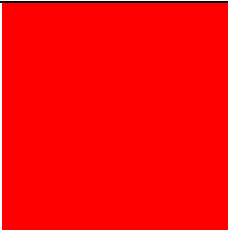
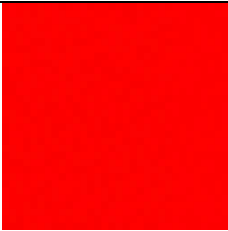
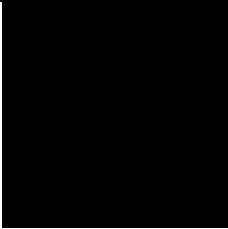
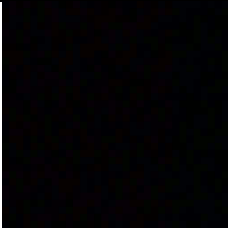
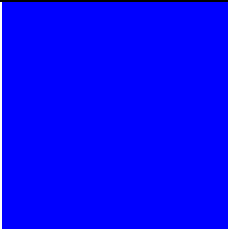
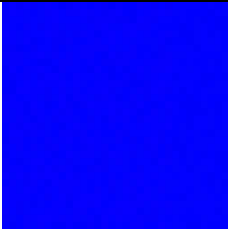
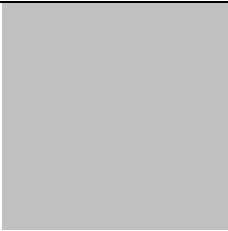

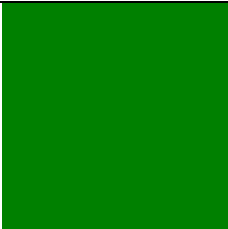
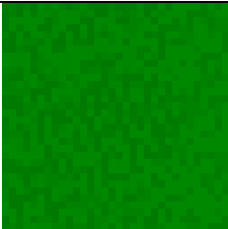
<i>Cover-image</i> 128x128	Pesan 30%	Pesan 60%	Pesan 100%
			
Maksimal			
			

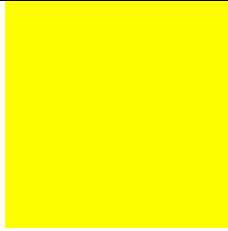
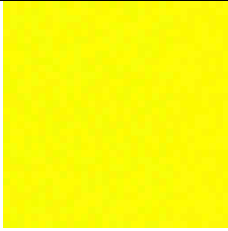
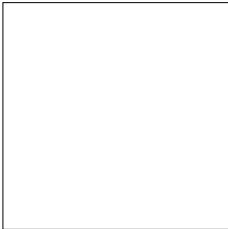
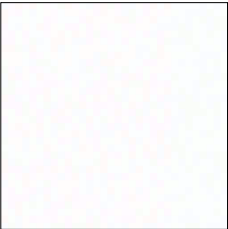
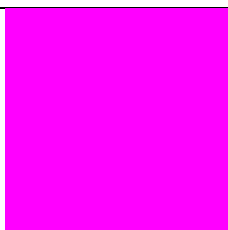
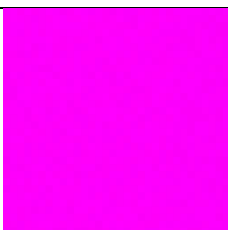

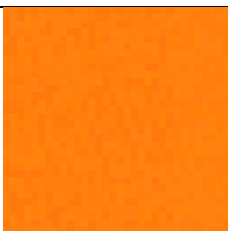
<i>Cover-image</i> 192x192	Pesanan 30%
	
Pesanan 60%	Pesanan 100%
	
Maksimal	
	



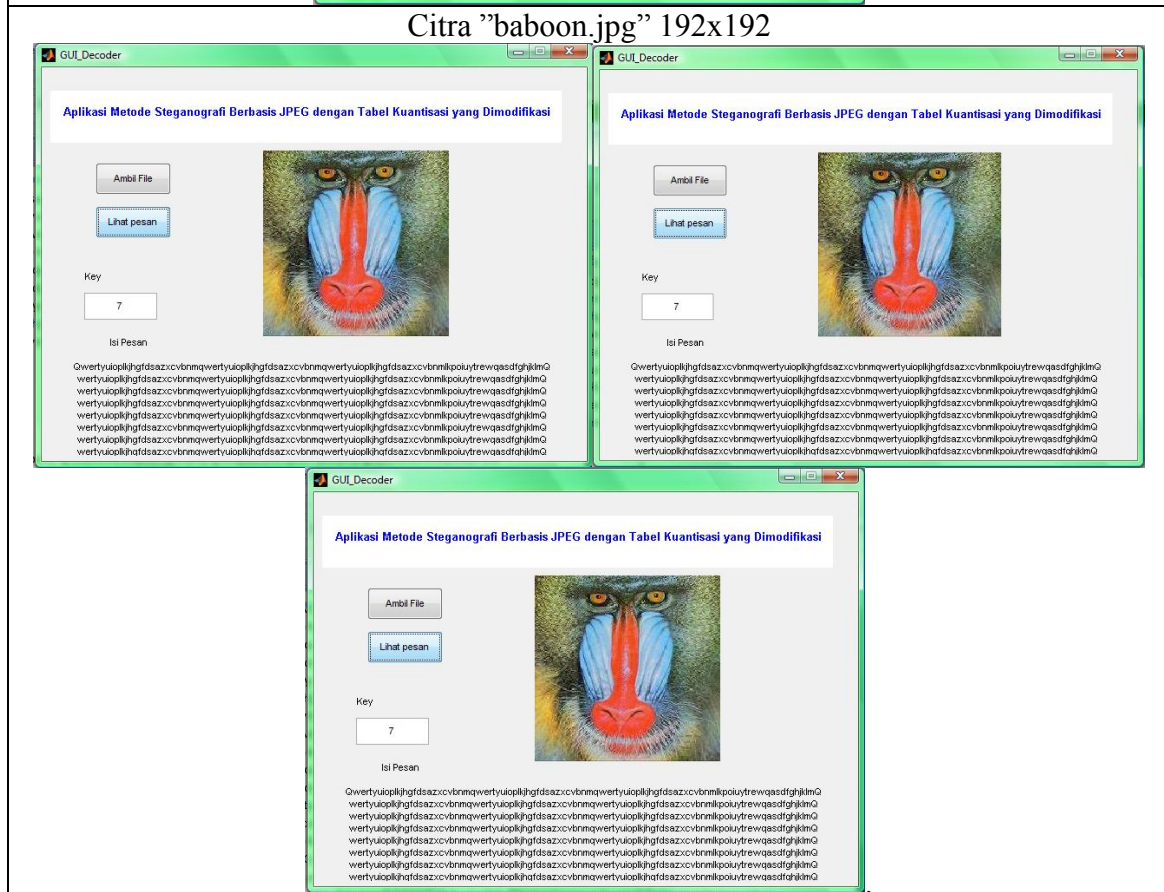
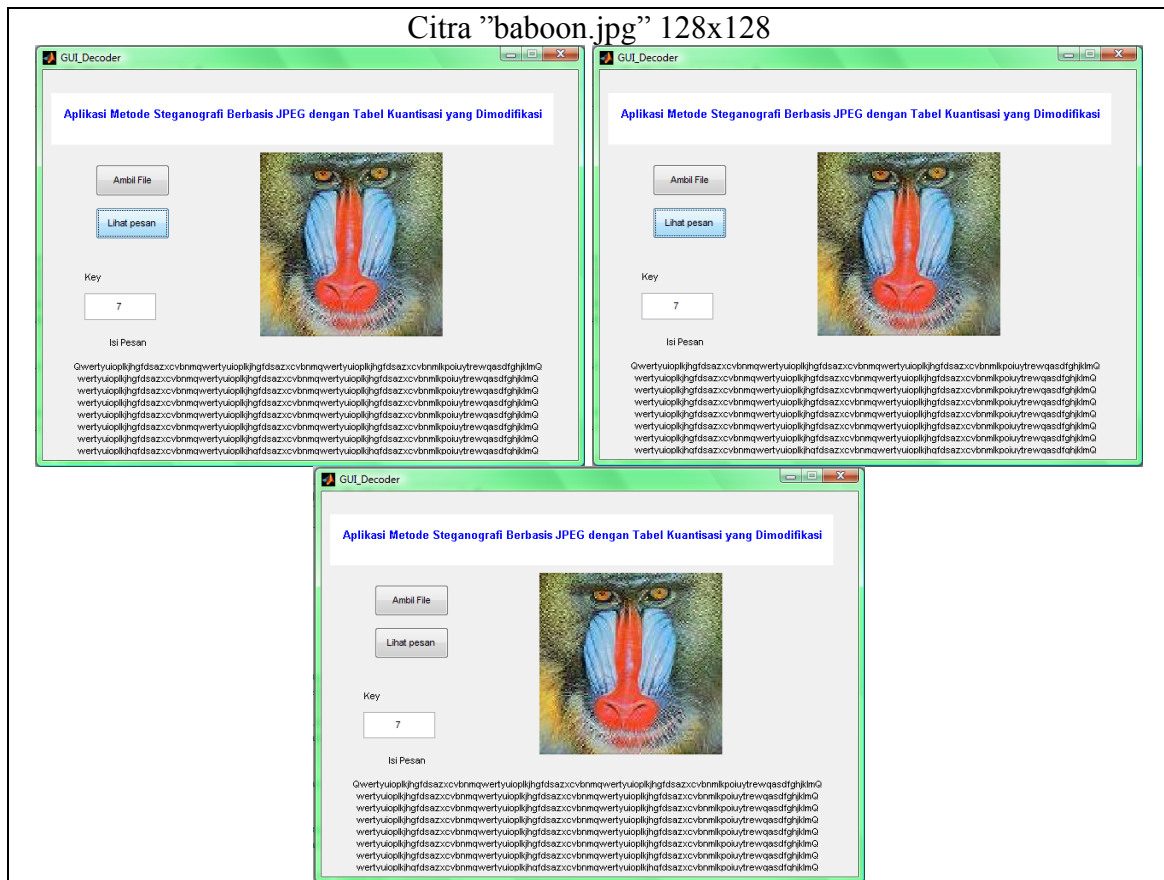
<p>Cover-image 256x256</p>	<p>Pesan 30%</p>
	
<p>Pesan 60%</p>	<p>Pesan 100%</p>
	
<p>Maksimal</p>	
	

**A.7. Citra Berwarna Polos Tanpa Corak Sebelum dan Setelah Disisipkan Pesan**

<i>Cover-image</i>	Citra Setelah Disisipkan Pesan
	
	
	
	
	

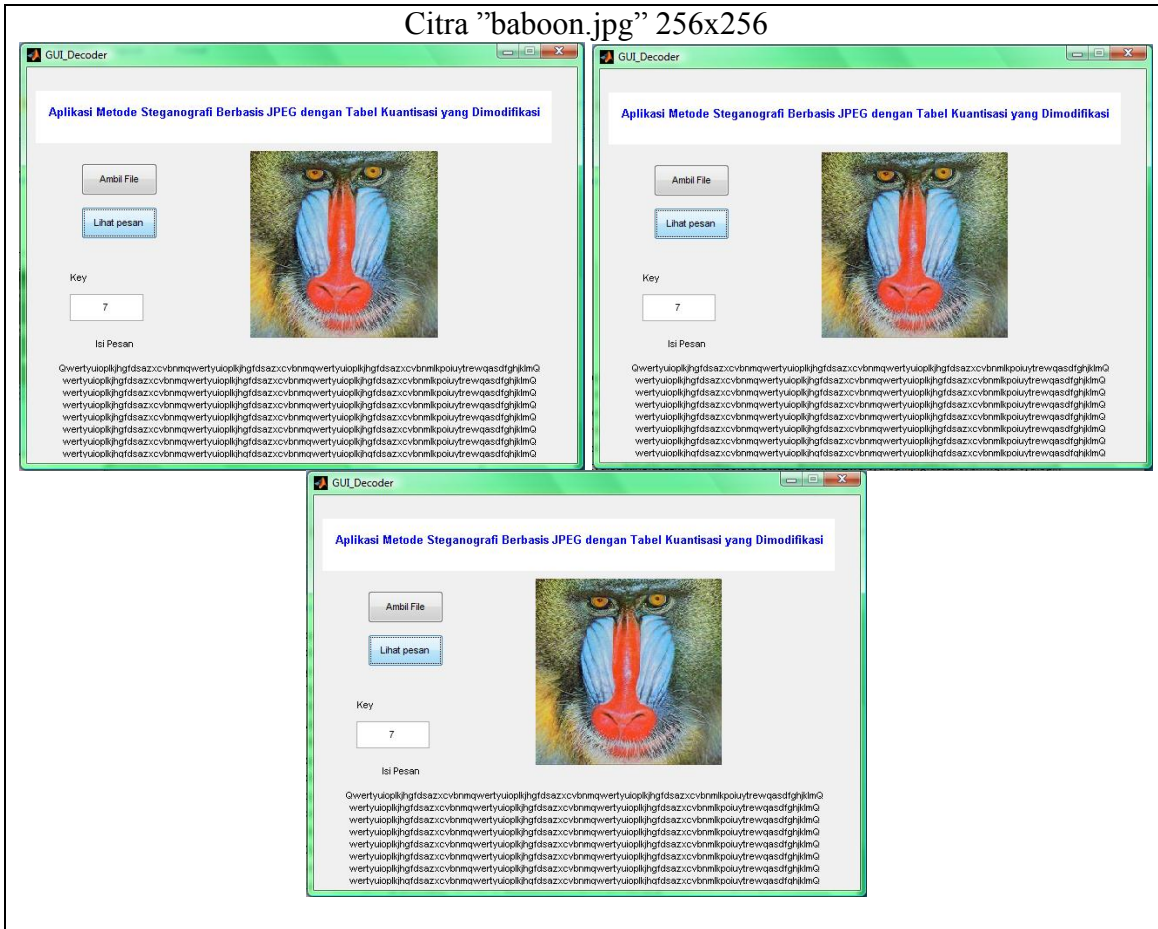
<i>Cover-image</i>	Citra Setelah Disisipkan Pesan
	
	
	
	

## A.8. Hasil Ekstraksi Citra

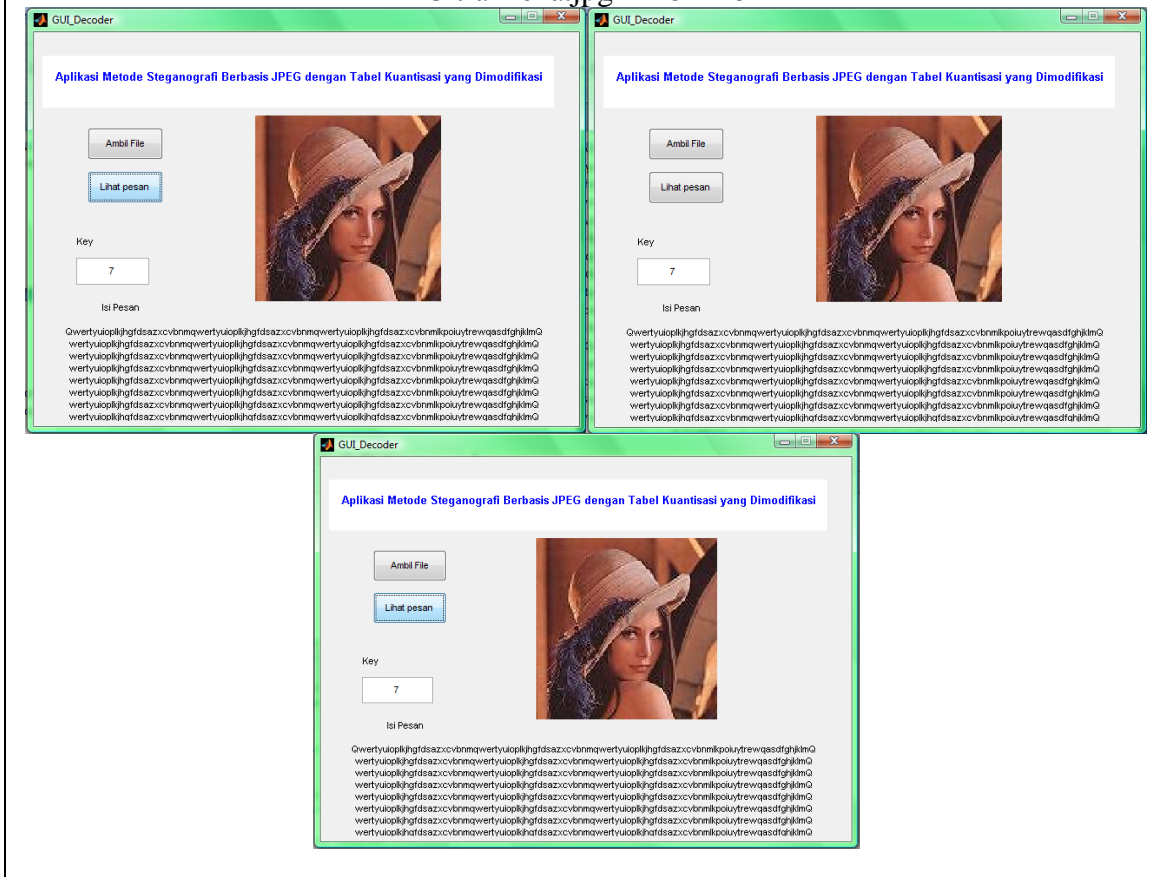




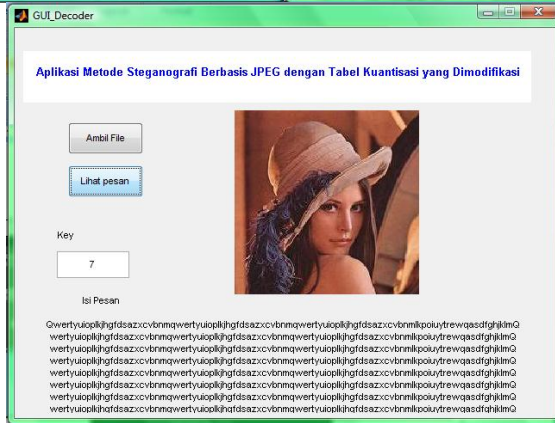
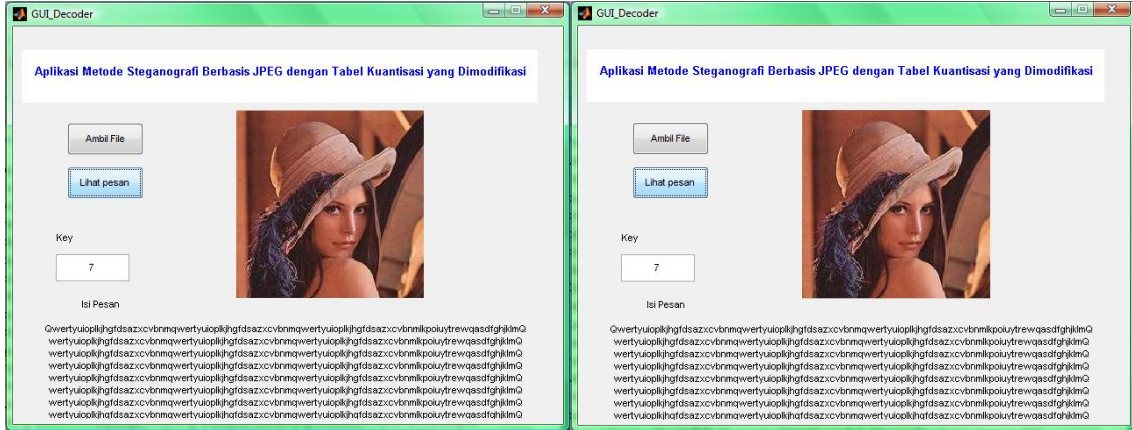
## Citra "baboon.jpg" 256x256



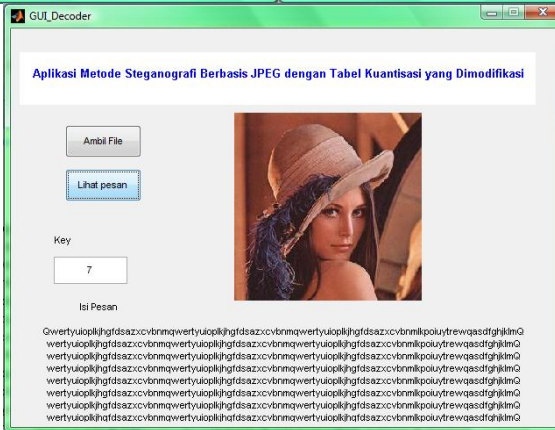
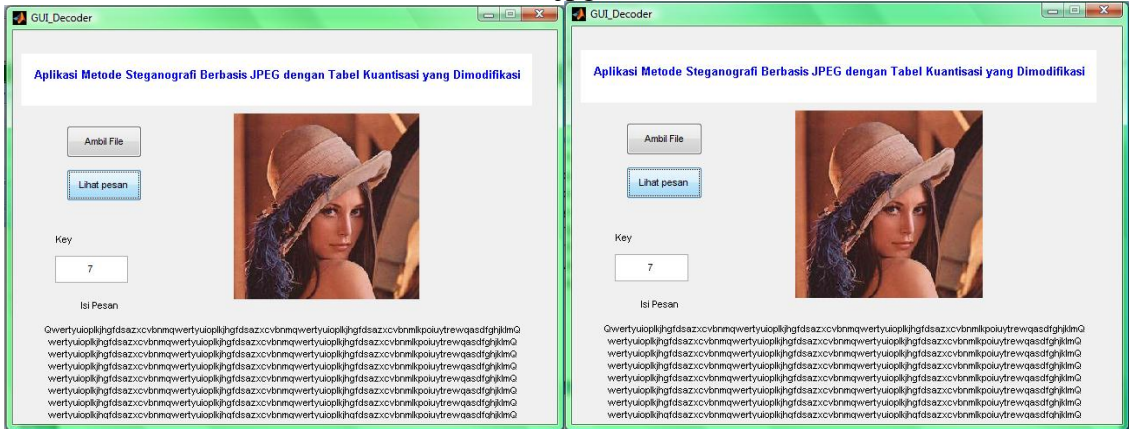
## Citra "lena.jpg" 128x128



Citra "lena.jpg" 192x192

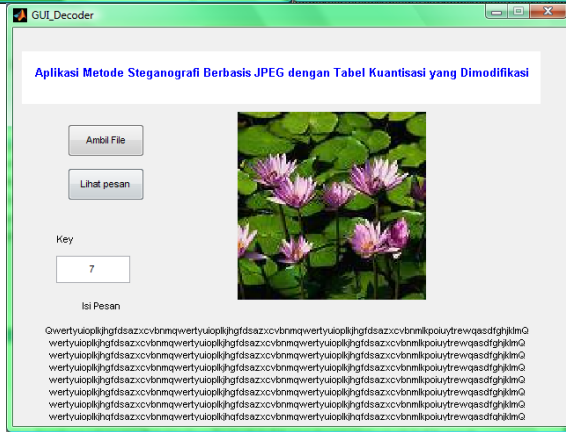
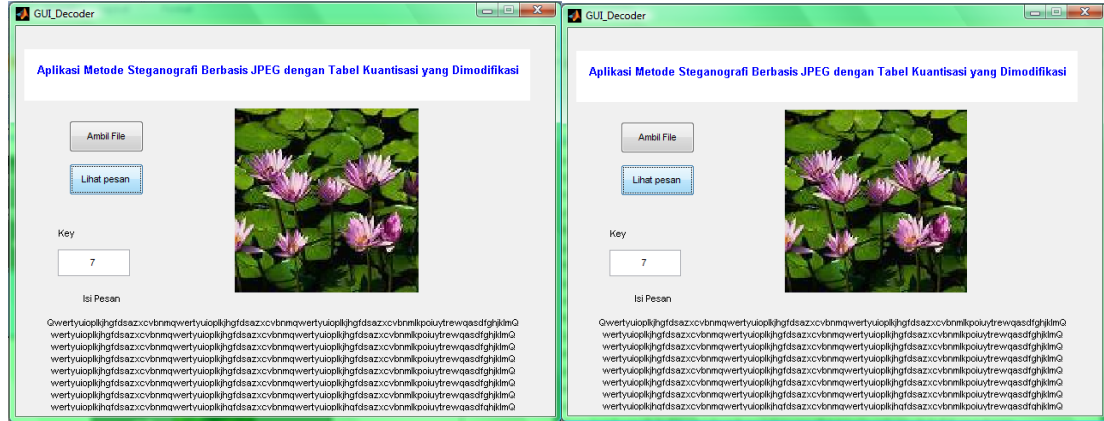


Citra "lena.jpg" 256x256

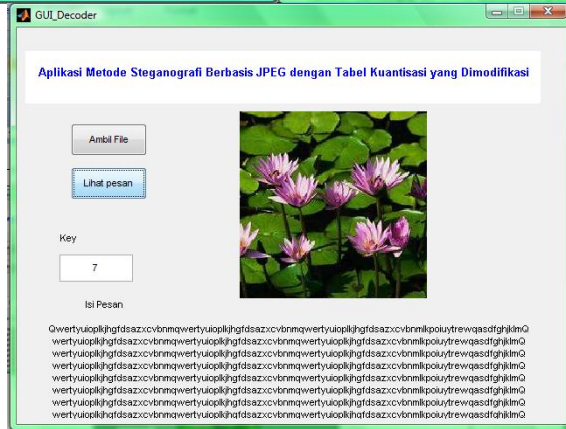
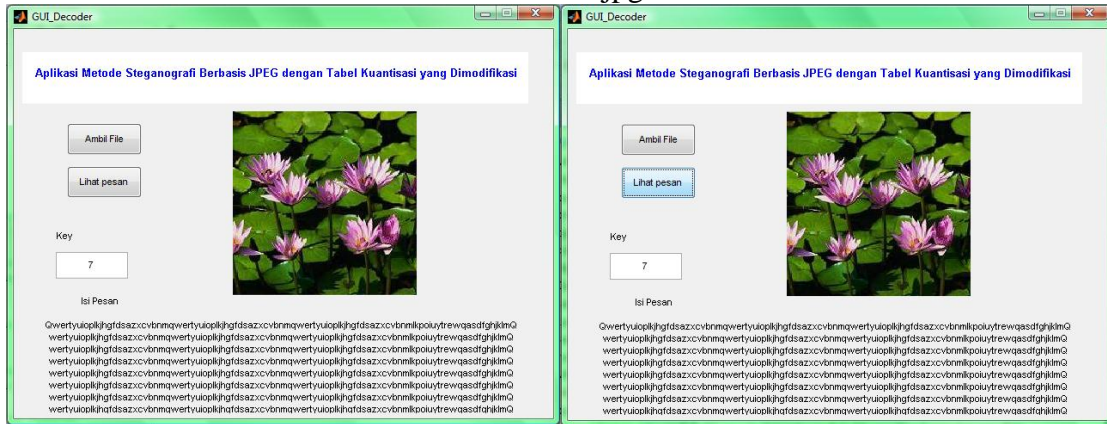




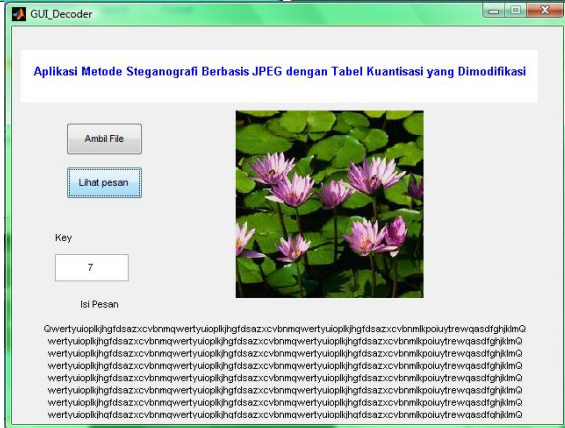
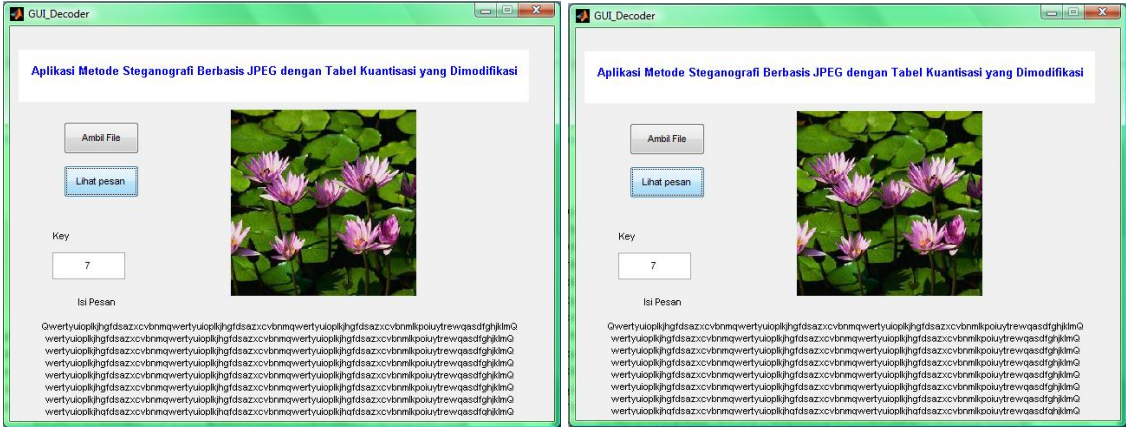
### Citra "water lilies.jpg" 128x128



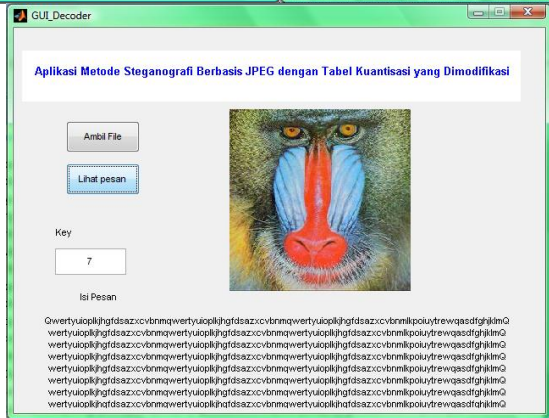
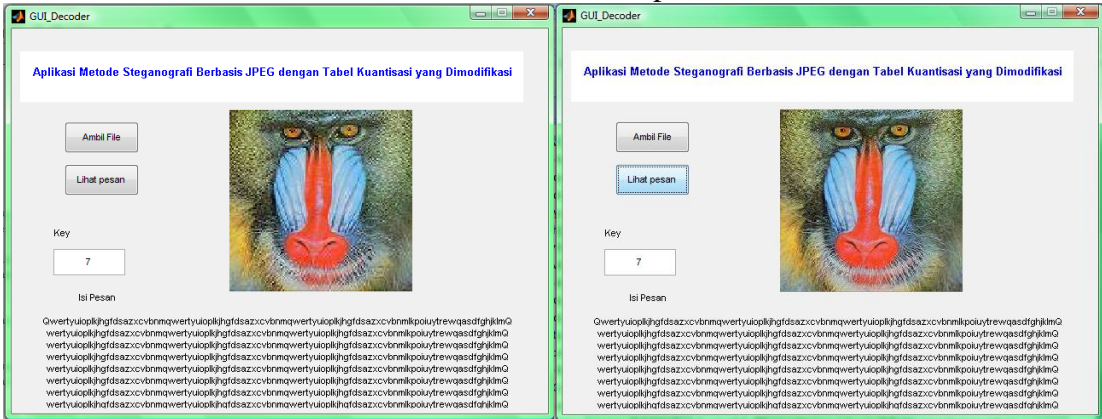
### Citra "water lilies.jpg" 192x192



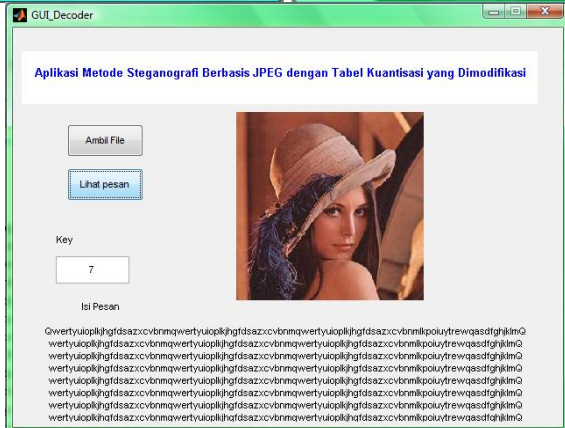
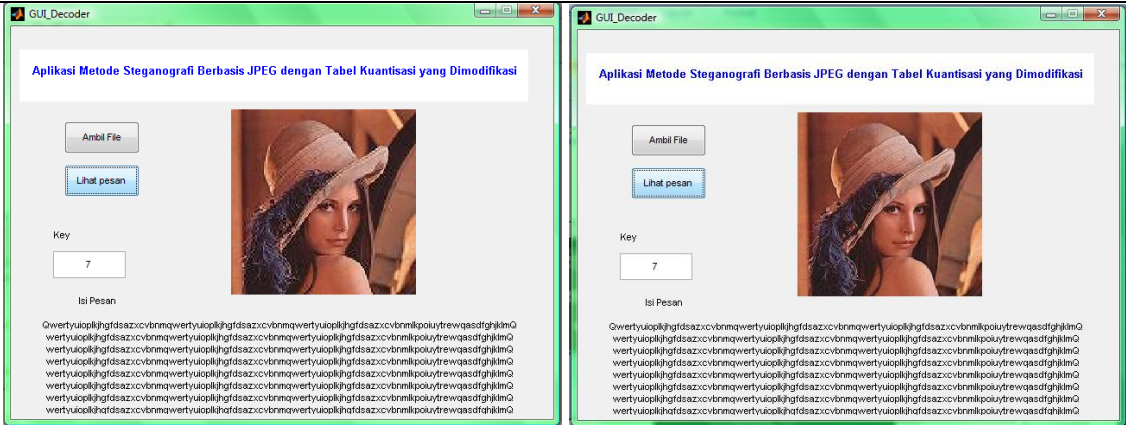
# Citra "water lilies.jpg" 256x256



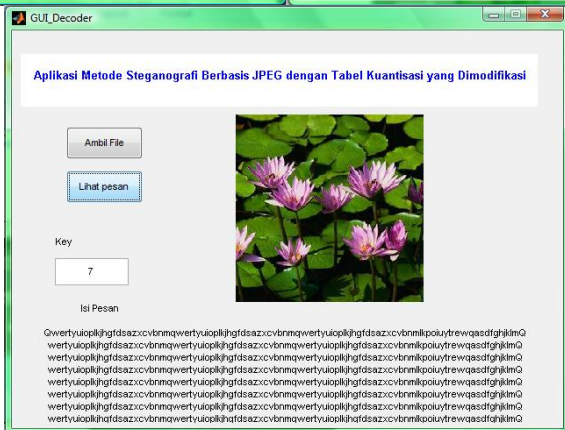
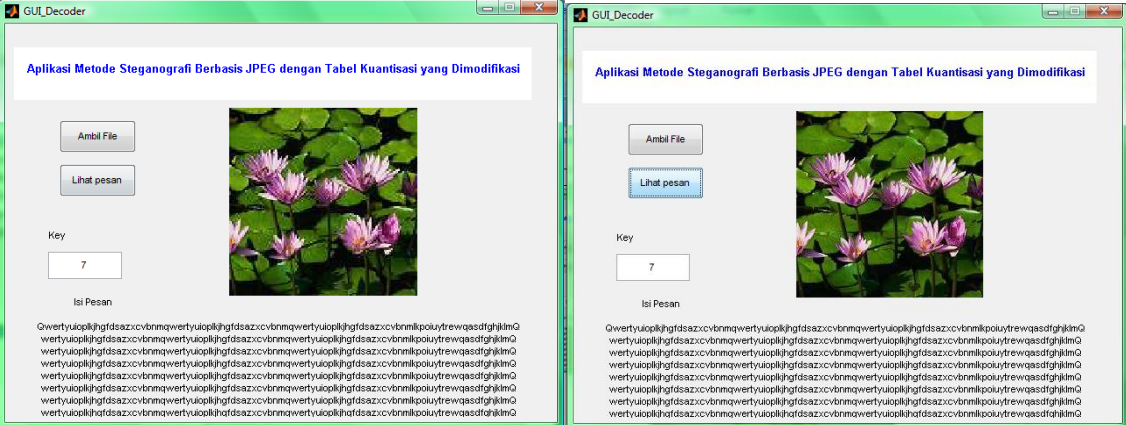
# Citra "baboon.bmp"



### Citra "lena.bmp"



### Citra "water lilies.bmp"



**LAMPIRAN B**

**PENILAIAN SUBJEKTIF**



**B.1. Kategori Penilaian Mean Opinion Score (MOS)**

Nilai	Kualitas citra	Penjelasan
5	Sangat Bagus	Citra yang diamati mempunyai kualitas yang sangat baik hampir serupa dengan citra aslinya
4	Bagus	Citra yang diamati mempunyai kualitas bagus tanpa gangguan yang berarti
3	Cukup	Citra yang diamati mempunyai kualitas yang cukup baik dengan gangguan yang sedikit berarti
2	Batas	Citra yang diamati mempunyai kualitas buruk dengan gangguan yang berarti
1	Buruk	Citra yang diamati memiliki kualitas yang demikian buruk sehingga tidak dapat diamati lagi

**B.2. Contoh Kuisisioner untuk Penilaian Mean Opinion Score (MOS)**

Nama :

**Hasil metode tabel kuantisasi yang dimodifikasi**

Citra "baboon.jpg"			
Penilaian	Nilai (1-5)		
Ukuran Citra	128x128	192x192	256x256
Cover-image terhadap citra disisipkan pesan 30%			
Cover-image terhadap citra disisipkan pesan 60%			
Cover-image terhadap citra disisipkan pesan 100%			
Citra "lena.jpg"			
Penilaian	Nilai (1-5)		
Ukuran Citra	128x128	192x192	256x256
Cover-image terhadap citra disisipkan pesan 30%			
Cover-image terhadap citra disisipkan pesan 60%			
Cover-image terhadap citra disisipkan pesan 100%			
Citra "water lilies.jpg"			
Penilaian	Nilai (1-5)		
Ukuran Citra	128x128	192x192	256x256
Cover-image terhadap citra disisipkan pesan 30%			
Cover-image terhadap citra disisipkan pesan 60%			
Cover-image terhadap citra disisipkan pesan 100%			



## Perbandingan

### a. Metode Jpeg-Jsteg

Citra "baboon.bmp"			
Penilaian	Nilai (1-5)		
Ukuran Citra	128x128	192x192	256x256
<i>Cover-image</i> terhadap citra disisipkan pesan 30%			
<i>Cover-image</i> terhadap citra disisipkan pesan 60%			
<i>Cover-image</i> terhadap citra disisipkan pesan 100%			
Citra "lena.bmp"			
Penilaian	Nilai (1-5)		
Ukuran Citra	128x128	192x192	256x256
<i>Cover-image</i> terhadap citra disisipkan pesan 30%			
<i>Cover-image</i> terhadap citra disisipkan pesan 60%			
<i>Cover-image</i> terhadap citra disisipkan pesan 100%			
Citra "water lilies.bmp"			
Penilaian	Nilai (1-5)		
Ukuran Citra	128x128	192x192	256x256
<i>Cover-image</i> terhadap citra disisipkan pesan 30%			
<i>Cover-image</i> terhadap citra disisipkan pesan 60%			
<i>Cover-image</i> terhadap citra disisipkan pesan 100%			

### b. Metode tabel kuantisasi yang dimodifikasi

Citra "baboon.bmp"			
Penilaian	Nilai (1-5)		
Ukuran Citra	128x128	192x192	256x256
<i>Cover-image</i> terhadap citra disisipkan pesan 30%			
<i>Cover-image</i> terhadap citra disisipkan pesan 60%			
<i>Cover-image</i> terhadap citra disisipkan pesan 100%			
<i>Cover-image</i> terhadap citra disisipkan pesan maks			
Citra "lena. bmp"			
Penilaian	Nilai (1-5)		
Ukuran Citra	128x128	192x192	256x256
<i>Cover-image</i> terhadap citra disisipkan pesan 30%			
<i>Cover-image</i> terhadap citra disisipkan pesan 60%			
<i>Cover-image</i> terhadap citra disisipkan pesan 100%			
<i>Cover-image</i> terhadap citra disisipkan pesan maks			

Citra "water lilies. bmp"			
Penilaian	Nilai (1-5)		
Ukuran Citra	128x128	192x192	256x256
<i>Cover-image</i> terhadap citra disisipkan pesan 30%			
<i>Cover-image</i> terhadap citra disisipkan pesan 60%			
<i>Cover-image</i> terhadap citra disisipkan pesan 100%			
<i>Cover-image</i> terhadap citra disisipkan pesan maks			

Citra Berwarna (JPEG)	Nilai (1-5)
Hitam	
Putih	
Merah	
Kuning	
Biru	
Hijau	
Abu-abu	
Ungu	
Jingga	

### B.3. Hasil Penilaian MOS

#### Metode tabel kuantisasi yang dimodifikasi

No	Nama	Baboon.jpg 128			Baboon.jpg 192			Baboon.jpg 256			Lena.jpg 128			Lena.jpg 192			Lena.jpg 256		
1.	Yenny	3	3	4	3	4	4	4	3	3	4	4	2	4	4	2	4	4	3
2.	Qodarrinna	4	5	5	5	5	4	4	4	5	5	4	5	4	5	4	5	5	5
3.	Ira	5	5	5	4	4	5	4	4	5	5	5	4	5	5	4	5	5	4
4.	Evi	5	5	5	4	5	4	5	4	4	5	5	5	5	5	4	5	5	4
5.	Dedi	5	5	5	5	5	4	5	5	4	5	4	5	4	5	5	5	5	4
6.	Gita	4	4	4	4	4	5	4	4	5	4	4	3	3	3	4	4	3	3
7.	Ronny	4	4	4	4	4	4	5	4	4	4	4	3	4	3	3	4	3	3
8.	Dian	4	4	4	4	4	5	4	4	4	4	3	4	4	3	3	4	3	3
9.	Nina	4	4	4	5	4	4	5	4	4	4	4	3	4	3	3	4	3	4
10.	Alvin	4	4	3	4	4	4	4	4	4	4	4	4	3	4	3	4	3	3
11.	Sherly	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	4	3	3
12.	Leo	5	4	4	4	4	4	4	4	4	4	4	3	3	3	3	4	3	3

13.	Lina	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	4	3	3
14.	Johny	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	3	3
15.	Alam	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	4	4	3
16.	Peter	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	4	3	3
17.	Simson	4	4	4	4	4	4	4	4	4	4	4	3	4	3	3	4	3	3
18.	Simon	5	4	4	4	4	4	4	4	4	4	4	3	4	3	3	4	3	3
19.	Calvin	5	4	4	5	4	4	4	4	4	4	4	4	4	4	3	4	4	3
20.	Andry	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	4	3	3
21.	Ady	4	4	4	5	4	4	5	5	4	5	4	4	4	4	4	4	3	3
22.	Dennis	4	4	4	5	4	4	5	4	4	4	4	3	4	3	3	3	3	3
23.	Dolin	5	4	4	5	4	4	5	4	4	4	4	3	4	3	3	4	4	3
24.	Andre	4	4	4	4	4	4	5	4	4	4	4	4	4	3	3	3	3	3
25.	Rendra	5	4	4	5	4	4	5	4	4	5	4	4	4	3	3	4	3	3
26.	Ray	4	4	4	5	4	4	5	4	4	4	4	3	4	3	3	4	3	3
27.	Cornelis	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3
28.	Albert	5	4	4	5	4	4	5	4	4	4	4	4	3	4	4	4	4	3
29.	Bima	4	4	3	4	4	4	4	5	4	4	4	4	3	3	3	4	4	3
30.	Hendry	4	4	5	5	4	4	5	4	4	5	5	4	4	4	5	5	5	5

No	Nama	Lilies.jpg 128			Lilies.jpg 192			Lilies.jpg 256			Baboon.bmp 128				Baboon.bmp 192			
		1.	Yenny	5	4	2	4	3	2	4	3	2	4	4	4	4	4	4
2.	Qodarrinna	4	5	5	5	5	4	5	5	5	4	4	4	4	4	4	4	4
3.	Ira	5	5	5	5	4	4	5	5	4	4	4	4	3	4	4	4	4
4.	Evi	5	5	5	5	4	4	5	4	4	4	4	4	4	4	4	4	4
5.	Dedi	5	5	4	4	5	5	5	4	3	4	4	4	4	4	4	4	4
6.	Gita	4	3	4	4	3	3	3	4	4	4	4	4	3	4	4	4	4
7.	Ronny	4	3	3	4	3	3	4	4	3	4	4	4	3	4	4	4	4
8.	Dian	4	3	4	4	3	3	4	3	4	4	4	4	4	4	4	4	3
9.	Nina	4	3	4	4	3	3	3	4	4	4	4	4	4	4	4	4	5
10.	Alvin	4	3	3	4	3	3	4	3	4	4	4	4	4	4	4	4	4
11.	Sherly	4	4	3	4	4	4	3	4	4	4	4	4	4	4	3	4	4
12.	Leo	4	3	3	4	3	3	4	4	3	4	4	4	3	4	4	4	4
13.	Lina	4	3	4	4	4	3	4	4	3	4	4	4	4	4	4	4	3
14.	Johny	4	4	3	4	3	3	4	4	3	4	4	4	4	4	4	4	4
15.	Alam	4	4	3	4	4	3	4	4	3	4	4	4	4	4	4	4	4
16.	Peter	4	4	3	4	3	3	4	4	3	4	4	4	4	4	4	3	4
17.	Simson	4	4	3	3	3	4	4	3	4	4	3	4	4	4	4	4	4
18.	Simon	4	4	3	4	3	3	4	4	3	4	4	4	3	4	4	4	4

19.	Calvin	4	4	3	4	3	3	4	4	3	4	4	4	4	4	4	3
20.	Andry	4	4	3	4	4	3	4	4	3	4	4	4	3	4	4	4
21.	Ady	4	4	3	4	3	3	4	4	3	4	4	4	4	4	4	4
22.	Dennis	4	4	3	4	3	3	4	4	3	4	4	4	3	4	4	4
23.	Dolin	4	4	3	4	3	3	4	4	3	4	4	4	3	4	4	4
24.	Andre	3	3	3	4	3	3	4	4	4	4	4	3	3	4	4	4
25.	Rendra	4	4	3	4	3	3	4	4	4	4	4	4	4	4	4	4
26.	Ray	4	4	3	4	3	3	4	4	3	4	4	4	3	4	4	4
27.	Cornelis	4	4	4	3	3	3	4	4	4	4	4	4	4	4	4	4
28.	Albert	4	3	3	4	4	3	4	4	3	4	4	4	4	4	4	4
29.	Bima	4	4	4	3	3	3	4	4	4	4	4	4	4	4	4	4
30.	Hendry	4	5	5	5	5	5	5	4	4	4	4	3	4	4	4	3

No	Nama	Baboon.bmp				Lena.bmp				Lena.bmp				Lena.bmp			
		256				128				192				256			
1.	Yenny	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3
2.	Qodarrinna	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4
3.	Ira	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3
4.	Evi	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3
5.	Dedi	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
6.	Gita	5	4	4	4	4	4	5	4	4	5	4	4	5	4	3	3
7.	Ronny	5	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4
8.	Dian	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3
9.	Nina	5	4	4	4	4	4	4	3	4	4	4	4	4	4	4	3
10.	Alvin	4	4	4	4	4	4	4	3	4	3	4	3	4	4	3	3
11.	Sherly	4	4	4	3	4	4	4	4	4	4	3	3	4	4	3	3
12.	Leo	4	4	4	3	4	4	4	3	4	4	4	3	4	4	3	3
13.	Lina	4	4	3	4	4	4	4	3	4	3	3	3	4	4	3	3
14.	Johny	4	4	4	3	4	4	3	3	4	3	3	3	4	3	3	3
15.	Alam	4	4	4	3	4	4	4	3	4	4	3	3	4	3	3	3
16.	Peter	4	4	3	3	4	4	3	3	4	3	3	4	4	3	3	3
17.	Simson	5	4	4	4	5	4	4	4	5	4	4	4	4	4	3	4
18.	Simon	4	4	4	4	5	4	4	4	5	4	4	4	5	4	4	3
19.	Calvin	4	4	4	4	4	4	4	3	4	4	4	3	4	4	4	3
20.	Andry	5	4	4	4	4	4	4	4	5	4	4	4	4	4	4	4
21.	Ady	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4
22.	Dennis	5	4	4	4	4	4	4	4	5	4	4	4	4	4	3	3
23.	Dolin	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	3

24.	Andre	5	4	4	3	5	4	4	4	5	4	4	3	5	4	3	3
25.	Rendra	4	4	4	4	5	4	4	4	5	4	4	4	4	4	3	3
26.	Ray	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	3
27.	Cornelis	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3
28.	Albert	4	4	4	3	4	4	4	4	5	4	4	4	5	4	4	4
29.	Bima	4	4	4	4	4	4	4	4	4	4	3	4	4	4	3	3
30.	Hendry	4	4	4	4	4	4	4	4	3	3	3	3	4	4	4	4

No	Nama	Lilies.bmp 256				Lilies.bmp 128				Lilies.bmp 192			
1.	Yenny	4	4	4	4	4	4	4	4	4	4	4	4
2.	Qodarrinna	4	4	4	4	4	4	4	4	4	4	4	4
3.	Ira	4	4	4	4	4	4	4	4	4	4	4	4
4.	Evi	4	4	4	4	4	4	4	4	4	4	4	4
5.	Dedi	4	4	4	4	4	4	4	4	4	4	4	4
6.	Gita	4	4	4	4	4	4	4	4	5	4	4	4
7.	Ronny	4	4	4	4	4	4	4	4	4	4	4	4
8.	Dian	4	4	4	4	4	4	4	4	4	4	4	3
9.	Nina	4	4	4	4	4	4	4	4	4	4	3	3
10.	Alvin	4	4	4	4	4	4	4	4	4	4	4	3
11.	Sherly	4	4	4	4	4	4	4	3	4	4	4	3
12.	Leo	4	4	4	4	4	4	4	4	4	4	3	4
13.	Lina	4	4	4	4	4	4	4	3	4	4	4	3
14.	Johny	4	4	4	3	4	4	3	4	4	4	3	3
15.	Alam	4	4	3	4	4	4	3	3	4	3	3	4
16.	Peter	4	4	4	4	4	4	3	4	4	3	4	4
17.	Simson	4	4	4	4	4	4	4	4	5	4	4	4
18.	Simon	4	4	4	4	4	4	4	4	5	4	4	4
19.	Calvin	4	4	4	4	4	4	4	4	4	4	4	3
20.	Andry	5	4	4	4	4	4	4	4	5	4	4	4
21.	Ady	4	4	4	4	4	4	4	4	5	4	4	4
22.	Dennis	4	4	4	4	4	4	4	4	5	4	4	4
23.	Dolin	4	4	4	4	4	4	4	4	5	4	4	4
24.	Andre	4	4	4	4	4	4	4	3	5	4	4	4
25.	Rendra	4	4	4	4	4	4	4	4	5	4	4	4
26.	Ray	4	4	4	4	4	4	4	4	5	4	4	4
27.	Cornelis	4	4	4	4	4	4	4	4	4	4	4	4
28.	Albert	4	4	4	4	5	4	4	4	4	4	4	4
29.	Bima	4	4	4	3	4	4	4	4	4	4	4	4



30.	Hendry	3	3	3	3	3	3	3	3	3	4	4	4	4
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### Metode Jpeg-Jsteg

No	Nama	Baboon.bmp 128			Baboon.bmp 192			Baboon.bmp 256			Lena.bmp 128			Lena.bmp 192			Lena.bmp 256		
1.	Yenny	4	3	2	4	3	2	3	3	3	3	2	2	3	3	3	3	2	2
2.	Qodarrinna	4	3	3	4	3	3	3	3	3	2	3	2	4	3	3	2	3	2
3.	Ira	3	2	2	3	3	3	3	3	3	3	2	2	4	3	3	3	2	2
4.	Evi	4	3	3	3	3	3	3	3	3	3	2	2	3	3	3	3	2	2
5.	Dedi	3	3	3	3	3	3	3	3	3	3	2	2	3	3	3	3	2	2
6.	Gita	4	3	3	4	3	3	3	3	3	3	2	2	4	3	3	3	2	2
7.	Ronny	4	3	3	4	3	3	3	3	3	3	2	2	4	3	3	3	2	2
8.	Dian	4	3	3	4	3	3	3	3	3	3	2	2	4	3	3	3	2	2
9.	Nina	4	3	3	4	3	3	3	3	3	3	2	2	4	3	3	3	2	2
10.	Alvin	3	3	3	4	3	3	3	3	3	3	2	2	3	3	3	3	2	2
11.	Sherly	3	3	4	3	3	4	3	3	3	3	3	2	4	3	3	3	2	2
12.	Leo	4	3	3	4	3	3	3	3	3	3	3	2	3	3	3	3	2	2
13.	Lina	3	3	3	3	3	3	3	3	3	3	2	2	4	3	3	3	2	2
14.	Johny	4	3	3	4	3	3	3	3	3	3	2	2	3	3	3	3	2	2
15.	Alam	4	3	3	4	3	3	3	3	3	3	3	2	3	3	2	3	2	2
16.	Peter	4	3	3	4	3	3	3	3	3	3	2	2	4	3	3	3	2	2
17.	Simson	3	4	3	3	4	3	3	3	3	3	2	3	3	4	3	2	3	2
18.	Simon	4	3	3	4	3	3	3	3	3	3	2	2	3	3	3	3	2	2
19.	Calvin	4	3	3	4	4	3	3	3	3	3	3	2	3	3	3	2	3	2
20.	Andry	4	3	3	4	3	3	3	3	3	3	2	2	4	3	3	3	2	2
21.	Ady	4	3	3	4	3	3	3	3	3	3	3	2	4	3	3	3	3	2
22.	Dennis	4	3	3	4	3	3	3	3	3	3	2	2	4	3	3	3	2	2
23.	Dolin	4	3	3	4	3	3	3	3	3	3	3	2	4	3	3	3	3	2
24.	Andre	3	3	3	3	3	3	4	3	3	3	3	2	3	3	2	2	2	2
25.	Rendra	3	3	3	3	3	3	3	3	3	2	2	2	3	3	3	3	3	2
26.	Ray	4	3	3	4	3	3	3	3	3	3	2	2	4	3	3	3	2	2
27.	Cornelis	3	3	3	3	3	3	3	3	3	2	2	2	3	3	3	2	2	2
28.	Albert	4	4	3	3	3	3	3	3	3	3	2	2	3	3	3	3	2	2
29.	Bima	4	3	3	4	4	3	3	3	3	3	3	2	4	3	2	3	3	3
30.	Hendry	4	4	3	3	3	3	4	4	3	3	3	2	3	3	2	3	2	2

No	Nama	Lilies.bmp 128			Lilies.bmp 192			Lilies.bmp 256		
1.	Yenny	3	3	2	3	3	3	3	3	3
2.	Qodarrinna	3	2	2	3	3	3	3	3	3
3.	Ira	3	3	2	3	3	3	3	3	2
4.	Evi	3	2	2	4	3	2	3	3	2
5.	Dedi	3	2	2	3	3	3	3	3	2
6.	Gita	3	3	2	4	3	3	4	3	2
7.	Ronny	3	3	2	3	3	3	3	3	2
8.	Dian	3	3	2	3	3	3	3	3	3
9.	Nina	3	2	2	3	3	2	3	3	3
10.	Alvin	4	3	2	4	3	2	3	3	2
11.	Sherly	3	2	2	3	2	2	4	3	3
12.	Leo	3	3	2	4	3	3	4	3	2
13.	Lina	3	3	3	3	3	2	3	2	2
14.	Johny	3	3	2	3	3	3	3	2	2
15.	Alam	4	3	2	3	3	2	3	2	2
16.	Peter	3	3	2	3	2	2	3	2	2
17.	Simson	3	2	3	3	4	3	2	3	3
18.	Simon	3	3	2	3	3	3	3	3	2
19.	Calvin	3	3	3	4	3	3	3	3	3
20.	Andry	3	3	2	4	3	2	4	3	2
21.	Ady	3	3	2	4	3	3	4	3	3
22.	Dennis	3	3	2	4	3	3	4	3	3
23.	Dolin	3	3	2	4	3	3	4	3	3
24.	Andre	3	2	2	4	3	3	4	3	2
25.	Rendra	3	3	3	3	3	3	3	3	2
26.	Ray	3	3	2	4	3	3	4	3	2
27.	Cornelis	3	3	3	3	3	3	3	3	3
28.	Albert	3	2	2	4	3	2	4	3	2
29.	Bima	3	3	2	4	3	3	4	3	3
30.	Hendry	3	3	4	3	3	3	3	3	3

No	Nama	Hitam	Putih	Merah	Kuning	Biru	Hijau	Abu-abu	Ungu	Jingga
1.	Yenny	4	5	4	5	4	3	4	3	4
2.	Qodarrinna	4	5	4	5	4	4	4	4	4
3.	Ira	4	5	4	5	4	4	4	4	4

4.	Evi	4	5	4	5	3	3	4	4	3
5.	Dedi	5	5	4	4	4	4	4	4	4
6.	Gita	5	5	4	4	4	4	5	3	4
7.	Ronny	4	4	4	5	4	4	3	4	4
8.	Dian	4	5	4	5	5	4	4	4	4
9.	Nina	5	5	5	5	5	3	4	4	5
10.	Alvin	5	5	4	5	4	4	4	5	4
11.	Sherly	4	5	4	4	4	4	5	4	4
12.	Leo	5	5	5	5	4	4	4	4	4
13.	Lina	4	5	4	5	4	4	4	3	3
14.	Johny	5	5	4	4	4	5	4	3	4
15.	Alam	4	5	5	5	3	4	4	3	3
16.	Peter	5	5	4	4	3	5	4	3	4
17.	Simson	4	5	4	5	4	4	3	3	4
18.	Simon	4	5	4	5	4	4	4	3	4
19.	Calvin	4	5	4	5	4	3	5	4	3
20.	Andry	4	5	4	5	3	4	4	4	4
21.	Ady	4	5	4	4	4	4	4	4	4
22.	Dennis	3	4	4	4	4	4	4	3	5
23.	Dolin	4	4	4	4	4	3	4	4	4
24.	Andre	4	4	4	5	4	4	4	3	3
25.	Rendra	5	5	3	5	3	3	4	5	3
26.	Ray	4	5	4	5	4	3	5	4	3
27.	Cornelis	4	5	4	4	4	3	4	4	3
28.	Albert	3	5	3	4	3	4	4	3	4
29.	Bima	4	5	4	4	4	4	4	4	4
30.	Hendry	4	5	4	5	3	4	4	4	3

