

KEAMANAN KOMPUTER/KRIPTOGRAFI

TUGAS AKHIR KELOMPOK



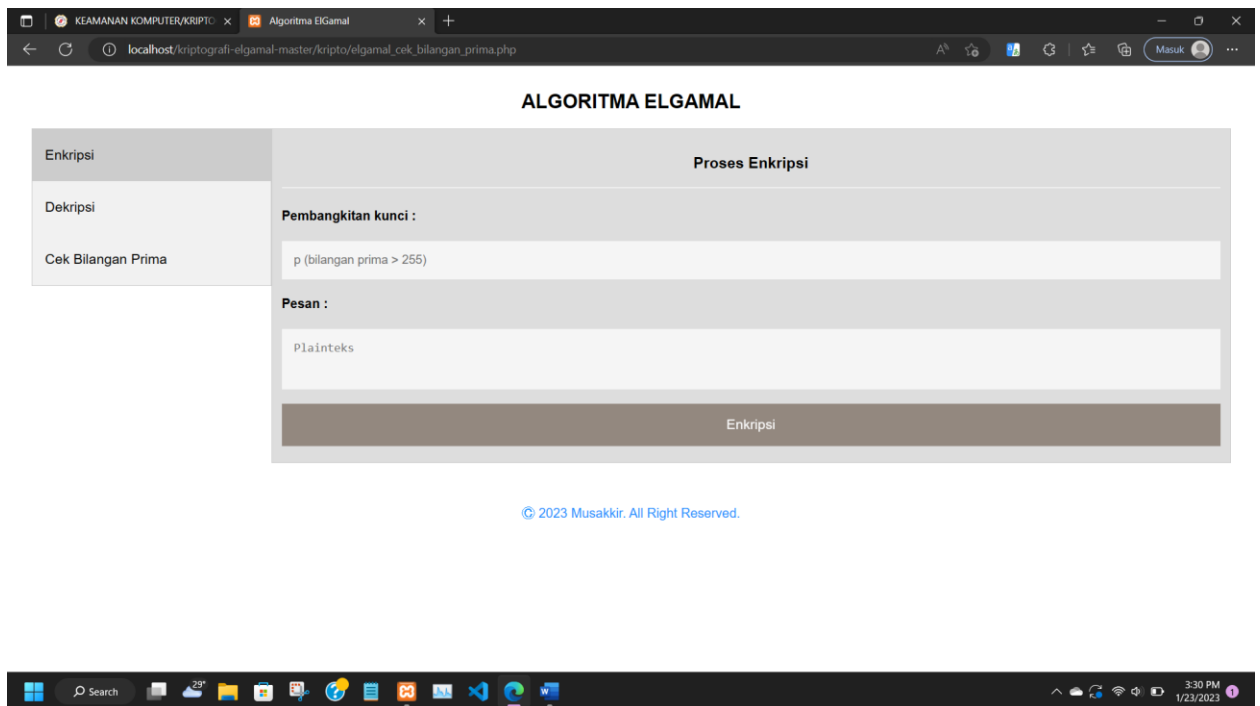
OLEH KELOMPOK :

- **202232 Musakkir Nompo**
Kelas : (5TKKO-H) Pindahan Dari Kelas (5TKKO-G)
- **202260 Muh. Imran Amrullah**
Kelas : (5TKKO-H)
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Kelas : (5TKKO-H)

PROGRAM STUDI TEKNIK INFORMATIKA
UNIVERSITAS DIPA MAKASSAR

2022

1. Tampilan Antar Muka Enkripsi Menggunakan Algoritma ElGamal



The screenshot shows a web browser window with the title "Algoritma ElGamal". The address bar shows the URL "localhost/kriptografi-elgamal-master/kripto/elgamal_cek_bilangan_prima.php". The page content is titled "ALGORITMA ELGAMAL". On the left, there is a sidebar with three menu items: "Enkripsi", "Dekripsi", and "Cek Bilangan Prima". The main area is titled "Proses Enkripsi". It contains two input fields: "Pembangkitan kunci :" with the value "p (bilangan prima > 255)" and "Pesan :" with the value "Plainteks". Below these fields is a large brown button labeled "Enkripsi". At the bottom of the page, there is a copyright notice: "© 2023 Musakkir. All Right Reserved."

ALGORITMA ELGAMAL

Enkripsi

Dekripsi

Cek Bilangan Prima

Proses Enkripsi

Pembangkitan kunci :

p (bilangan prima > 255)

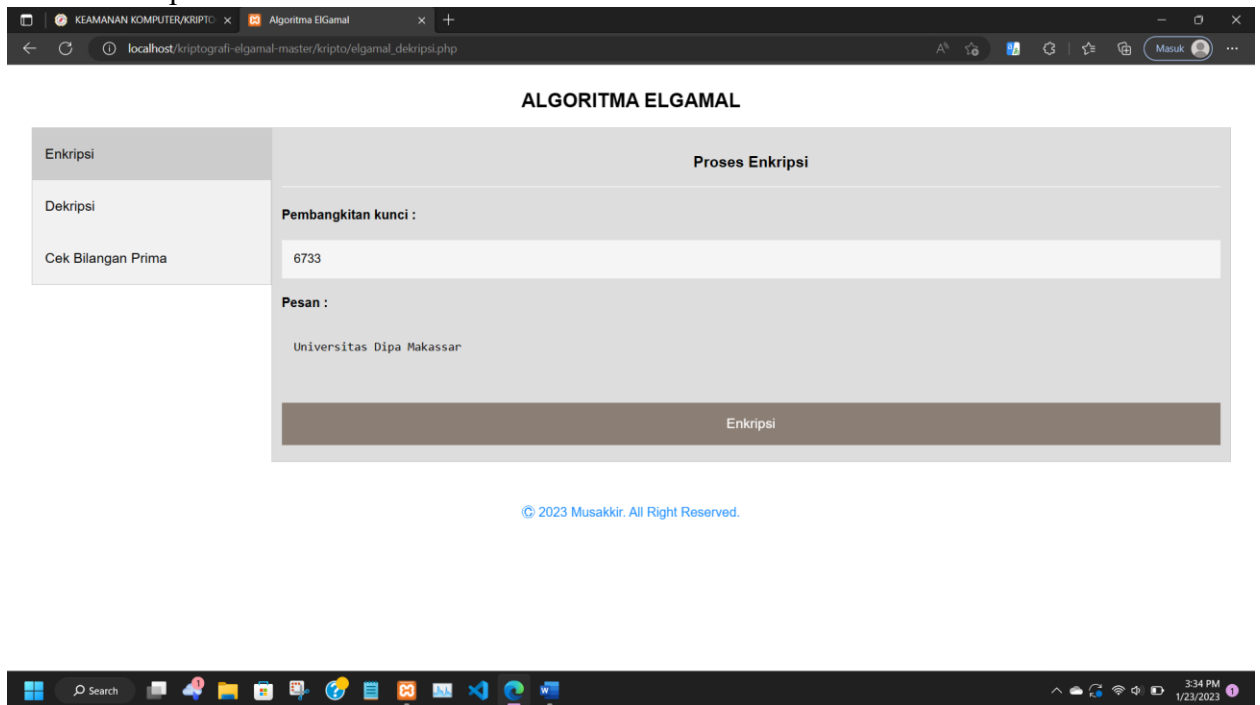
Pesan :

Plainteks

Enkripsi

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2. Proses Enkripsi



The screenshot shows the same web browser window as above, but the URL is now "localhost/kriptografi-elgamal-master/kripto/elgamal_dekripsi.php". The sidebar menu items are the same. The main area is still titled "ALGORITMA ELGAMAL". The sidebar menu items are "Enkripsi", "Dekripsi", and "Cek Bilangan Prima". The main area is titled "Proses Enkripsi". It contains two input fields: "Pembangkitan kunci :" with the value "6733" and "Pesan :" with the value "Universitas Dipa Makassar". Below these fields is a large brown button labeled "Enkripsi". At the bottom of the page, there is a copyright notice: "© 2023 Musakkir. All Right Reserved."

ALGORITMA ELGAMAL

Enkripsi

Dekripsi

Cek Bilangan Prima

Proses Enkripsi

Pembangkitan kunci :

6733

Pesan :

Universitas Dipa Makassar

Enkripsi

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3. Hasil Enkripsi

The screenshot shows a web browser window with the URL `localhost/kriptografi-elgama-master/kripto/elgama_enkripsi.php`. The page has a title bar "Enkripsi". Below it, the section "Hasil Enkripsi" displays the following information:

- Pesan plainteks :** Universitas Dipa Makassar
- Kunci yang dibangkitkan :**
 - 1. Nilai $p = 6733$
 - 1. Nilai g (acak) = 2366
 - 2. Nilai x (acak) = 464
 - 3. Nilai k (acak) = 5577
 - 4. Nilai $y = 5607$
 - 5. Kunci publik $(y, g, p) = (5607, 2366, 6733)$
 - 6. Kunci privat $(x, p) = (464, 6733)$
- Kunci yang digunakan :** Kunci publik $(y, g, p) = (5607, 2366, 6733)$
- Hasil enkripsi pesan :**
2096 668 2096 4429 2096 6370 2096 2670 2096 3883 2096 183 2096 2488 2096 6370 2096 4793 2096 1396 2096 2488 2096 6430 2096 1881 2096 6370 2096 2306 2096 1396 2096 6430 2096 2427 2096 1396 2096 4247 2096 1396 2096 2488 2096 2488 2096 1396 2096 183

At the bottom, it shows a timer: 0.13433289527893 detik.

4. Tampilan Antar Muka Dekripsi Menggunakan Algoritma Elgamal

The screenshot shows a web browser window with the URL `localhost/kriptografi-elgama-master/kripto/elgama_enkripsi.php`. The page has a title bar "ALGORITMA ELGAMAL". Below it, the section "Proses Dekripsi" displays the following information:

Enkripsi	Proses Dekripsi
Dekripsi	Kunci privat (x, p) : <div>x</div> <div>p</div>
Cek Bilangan Prima	Pesan : <div>Chiperteks</div> <div>Dekripsi</div>

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5. Proses Dekripsi

The screenshot shows a web browser window with the title "KEAMANAN KOMPUTER/KRIPTO" and the URL "localhost/kriptografi-elgamal-master/kripto/elgamal_dekripsi.php". The page is titled "ALGORITMA ELGAMAL" and contains a form for the decryption process. The form has a sidebar with options: "Enkripsi", "Dekripsi", and "Cek Bilangan Prima". The "Dekripsi" option is selected. The main area is titled "Proses Dekripsi" and contains the following fields:

- Kunci privat (x, p) :** A field containing the value "464".
- Pesan :** A field containing the encrypted message: "2096 668 2096 4429 2096 6370 2096 2670 2096 3883 2096 183 2096 2488 2096 6370 2096 4793 2096 1396 2096 2488 2096 6430 2096 1881 2096 6370 2096 2306 2096 1396 2096 6430 2096 2427 2096 1396 2096 4247 2096 1396 2096 2488 2096 2488 2096 1396 2096 183".
- Dekripsi** button: A large button to initiate the decryption process.

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6. Hasil Dekripsi

The screenshot shows the same web browser window as in the previous image, but now displaying the decryption results. The "Dekripsi" button has been clicked, and the results are shown in the "Hasil Dekripsi" section:

- Pesan chiperteks :** The same encrypted message as in the previous image.
- Kunci yang digunakan :** A field showing "Kunci privat (x, p) = (464, 6733)".
- Hasil dekripsi pesan :** A field showing the decrypted message: "Universitas Dipa Makassar".

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