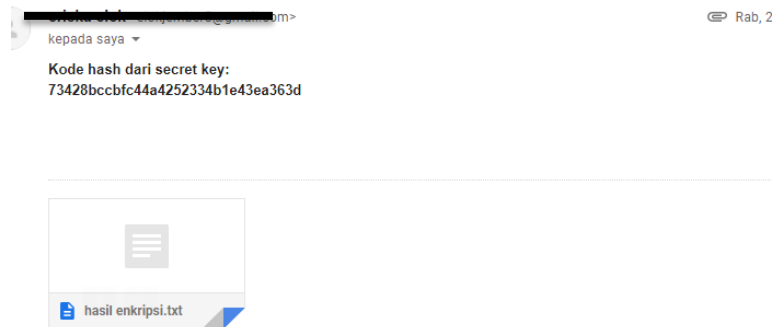


Nama	Dessya Christianita Effendi 18083000158
Nama Rekan	Eriska Elok U.A 18083000117
Kelas	5H

## B. Deskripsi

### Langkah Langkah Deskripsi

1. Unduh Kode hash dan hasil enkripsi yang sudah dienkrripsi.



2. Selanjutnya, **DECRYPT** kode hash dari secret key dengan **algoritma MD5**.  
**Decrypt** sendiri adalah proses mengubah kembali hasil enkripsi ke bentuk aslinya sehingga informasi tersebut dapat dibaca atau dengan kata lain merubah ciphertext data menjadi bentuk semula yang kita biasa kenal sebagai plaintext.
  - a. Masuk pada online tool MD5 Online dengan link sebagai berikut:  
<https://www.md5online.org/md5-decrypt.html>
  - b. Masukkan Kode Hash dari secret key.

The screenshot shows the MD5Online website. The header has the logo 'MD5Online' and navigation links: 'Encryption', 'Decryption', 'Bulk Decryption', 'Blog', and 'Tools'. Below the header, there is a section with a 'Learn more' button. The main content area has a text input field containing the MD5 hash '73428bccbfc44a4252334b1e43ea363d'. Below the input field, there are radio buttons for 'Quick search (free)' and 'In-depth search (1 credit)'. A large green 'Decrypt' button is at the bottom. Below the button, there is a section titled 'How it works?' with a brief description of the MD5 algorithm.

3. Tekan “Decrypt”, maka akan memunculkan hasil deskripsi dari kode hash nya

## MD5 Decryption

Enter your MD5 hash below and cross your fingers :

☒ Quick search (free) ☐ In-depth search (1 credit) 

Decrypt

Found : **1808300011716099**

(hash = 73428bccbfc44a4252334b1e43ea363d)

Search mode: Quick search

4. Kemudian lakukan DECRYPT file teks dengan algoritma AES.
- Advanced Encryption Standard (AES) ini merupakan algoritma cryptographic yang dapat digunakan untuk mengamankan data.
- Masuk pada link AES online Decryption dengan link sebagai berikut:  
Online tool: <https://www.devglan.com/online-tools/aes-encryption-decryption>
  - Isikan pada “Enter text to Decrypt” dengan isi hasil enkripsp.txt yang sudah diunduh.
  - Isikan Secret key dengan hasil dekripsi kode hashnya
  - Rubah Output text format menjadi Hex
  - Lalu tekan “Decrypt”

AES Online Encryption	AES Online Decryption
Enter text to be Encrypted	Enter text to be Decrypted
<input type="text" value="Enter plain text to hash"/>	<input type="text" value="E1C8EB0F87F0EC3A2DE2D2864A36FD993CA49182F208DB6219C0A25FE8DE7E0A2603F847B33D3F0B638E1DD03D38219C63F4D54AC1959BAE13D38C0112C7F6AC35F7DF5F5190AD166A8EBB0E5C9F5BCD5E4EDCE1D58DCB8AF115B311A44CF472C"/>
OR	Input Text Format: <input type="radio"/> Base64 <input checked="" type="radio"/> Hex
<input type="button" value="Choose File"/> No file chosen	Select Mode
Select Mode	<input type="text" value="ECB"/>
<input type="text" value="ECB"/>	Key Size in Bits
<input type="text" value="128"/>	<input type="text" value="128"/>
Enter Secret Key	Enter Secret Key
<input type="text" value="Enter secret key"/>	<input type="text" value="1808300011716099"/>
Output Text Format: <input checked="" type="radio"/> Base64 <input type="radio"/> Hex	<input type="button" value="Decrypt"/>

5. Setelah merubah Decrypt text menjadi Alogaritma AES, Tekan button 'Decode to Plain Text', kemudian simpan hasilnya dalam format file teks (.txt)

The screenshot shows a web interface for AES decryption. At the top, there is a blue button labeled "Decrypt". Below it, an advertisement for Google is displayed with options to "Stop seeing this ad" or "Why this ad?". The main section is titled "AES Decrypted Output (Base64):" and contains a text area with the following Base64-encoded string:   
WNPNXKKYHe05J43GVKUE9MHRUCa0XGGURV I  
W9Fub6zjt7O9axUuDM8agsy9SAe2emfelJtK  
6VwilfUdPeSxtxGHXHODzVuAlIm6QbcjoRVhb  
eMIAVBIHXuaPLCrhc07BcphFRiAo29uKFgi2gj  
oeetTyKWO3GD6lCkLLJg9PY8UgJFUyx2ppATl  
amCEe4qNsjtQBWZ3eUxBcgDPPel82XByikHu  
Below the text area is a blue button labeled "Decode to Plain Text". At the bottom, a preview of the decoded file is shown, displaying the first few bytes: "ÿøÿà" followed by a JFIF header and "ÿÛC".

6. Selanjutnya, DECODE file teks tersebut untuk mengembalikan bentuk asli dari file gambar menggunakan base64 decode.
- Masuk pada link base64 yang sudah disediakan.  
Online tool: <https://www.base64decode.org/>
  - Masukkan file Plain Text nya
  - Kemudian tekan "Decode"

The screenshot shows the "Decode files from Base64 format" website. The header includes the title and a brief instruction: "Select a file to upload and process, then you can download the decoded result." Below this is a large grey area with a file icon and the text "Click (or tap) here to select a file". A small green box with the number "1" is in the bottom right corner of this area. Below the file selection area, there is a note: "Maximum file size is 192MB." and a checkbox labeled "Decode each line separately (useful for multiple entries)" which is checked. A green button with the text "< DECODE >" is positioned below the checkbox. At the bottom, a success message is displayed: "Success! CLICK OR TAP HERE to download the decoded file. Please note that this file is removed from our system right after the first download attempt or 15 minutes of inactivity."

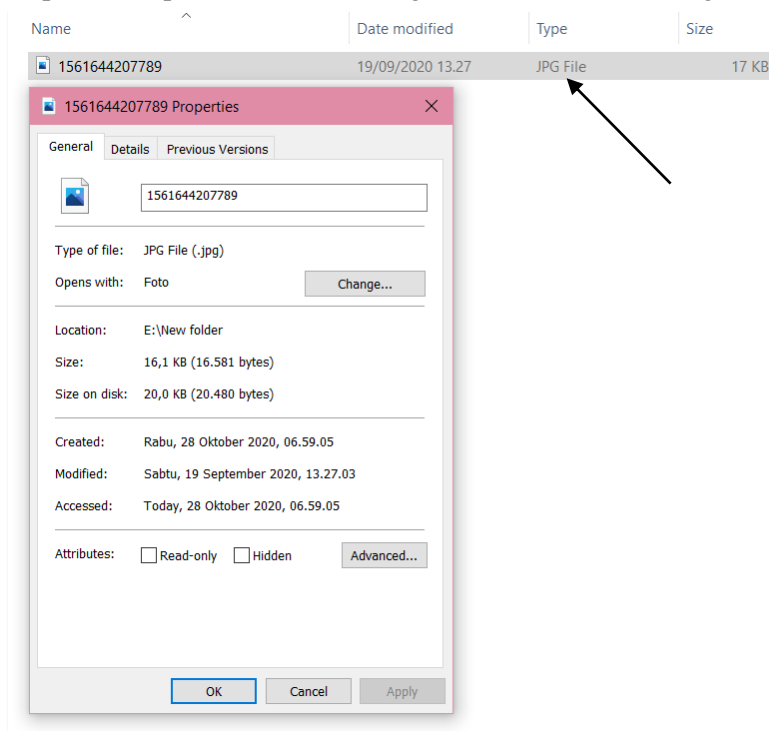
7. Unduh file gambar dan buka foto tersebut.



## A.Enkripsi

Langkah – langkah Enkripsi yaitu :

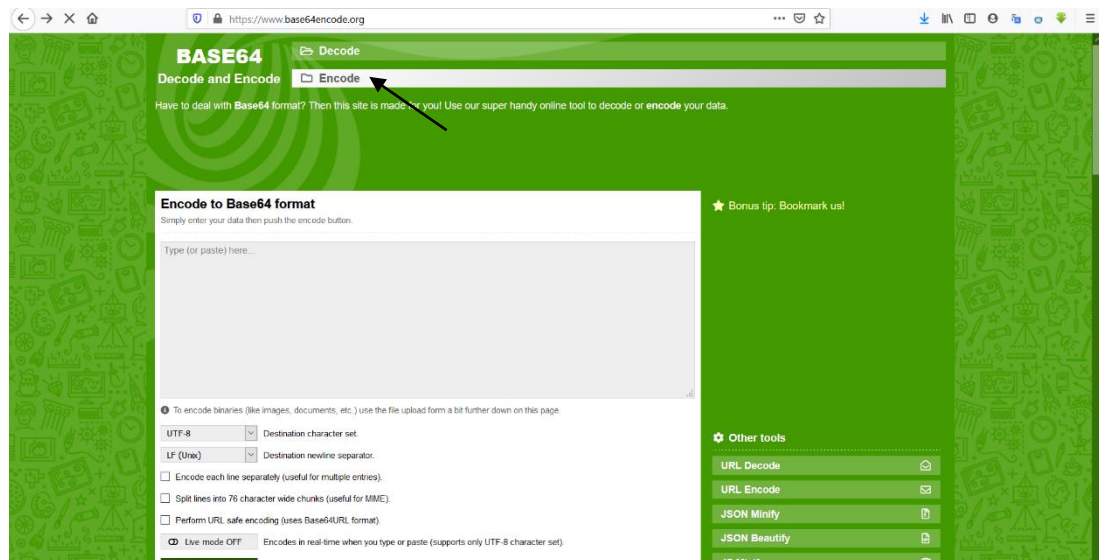
1. Siapkan atau pilih sebuah foto dengan format file foto atau gambar yaitu (.jpg)



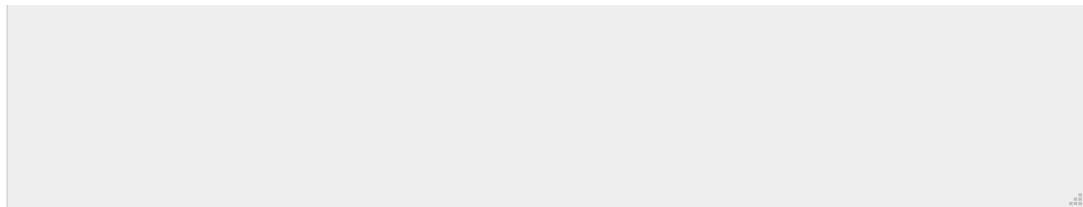
2. Lalu Encode foto tersebut dalam format Base64.

Encode merupakan mengubah format data atau file supaya lebih mudah diproses. Dan Base64 ini biasa digunakan untuk mengubah format file menjadi text.

- a) Masuk pada link tersebut <https://www.base64encode.org/>
- b) Pilih atau klik “Encode” seperti gambar dibawah.

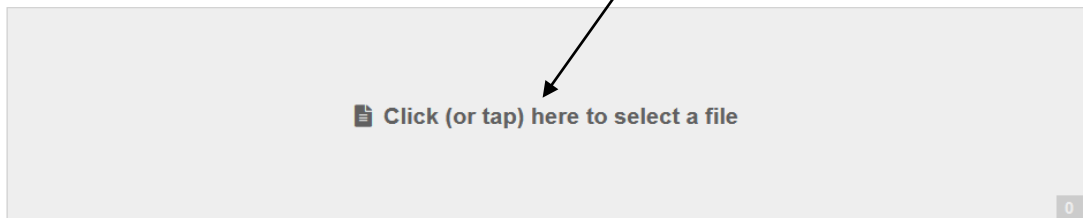


- c) Pilih dan masukkan file foto dengan format foto atau gambar (.jpg) dengan klik “ Click(or tap) here to select a file.



### Encode files into Base64 format

Select a file to upload and process, then you can download the encoded result.



Maximum file size is 192MB.

- BINARY (no conv.)** Destination character set for text files.
- LF (Unix)** Newline separator for encode each line separately and split lines into chunks.
- ☐ Encode each line separately (useful for multiple entries).
- ☐ Split lines into 76 character wide chunks (useful for MIME).
- ☐ Perform URL safe encoding (uses Base64URL format).

**> ENCODE <**

d) Lalu klik “Encode”

**Encode files into Base64 format**  
Select a file to upload and process, then you can download the encoded result.

Click (or tap) here to select a file

Maximum file size is 192MB.

BINARY (no conv.) Destination character set for text files.  
LF (Unix) Newline separator for encode each line separately and split lines into chunks.

☐ Encode each line separately (useful for multiple entries).  
☐ Split lines into 76 character wide chunks (useful for MIME).  
☐ Perform URL safe encoding (uses Base64URL format).

> ENCODE <

e) Setelah itu download dengan klik “click or tap here”

**Encode files into Base64 format**  
Select a file to upload and process, then you can download the encoded result.

Click (or tap) here to select a file

Maximum file size is 192MB.

BINARY (no conv.) Destination character set for text files.  
LF (Unix) Newline separator for encode each line separately and split lines into chunks.

☐ Encode each line separately (useful for multiple entries).  
☐ Split lines into 76 character wide chunks (useful for MIME).  
☐ Perform URL safe encoding (uses Base64URL format).

> ENCODE <

✓ Success!  
CLICK OR TAP HERE to download the encoded file.  
Please note that this file is removed from our system right after the first download attempt or 15 minutes of inactivity.

### Encode files into Base64 format

Select a file to upload and process, then you can download the encoded result.

Maximum file size is 192MB.

BINARY (no conv.) Destination ch LF (Unix) Newline separ

☐ Encode each line separately (useful fo

☐ Split lines into 76 character wide chunk

☐ Perform URL safe encoding (uses Bas

**> ENCODE <**

**Membuka encoded-20201028001412.txt**

Anda memutuskan untuk membuka:

**encoded-20201028001412.txt**  
adalah sebuah: Text Document  
dari: <https://www.base64encode.org>

**Apa yang sebaiknya Firefox lakukan dengan berkas ini?**

☐ Buka dengan Notepad (baku)

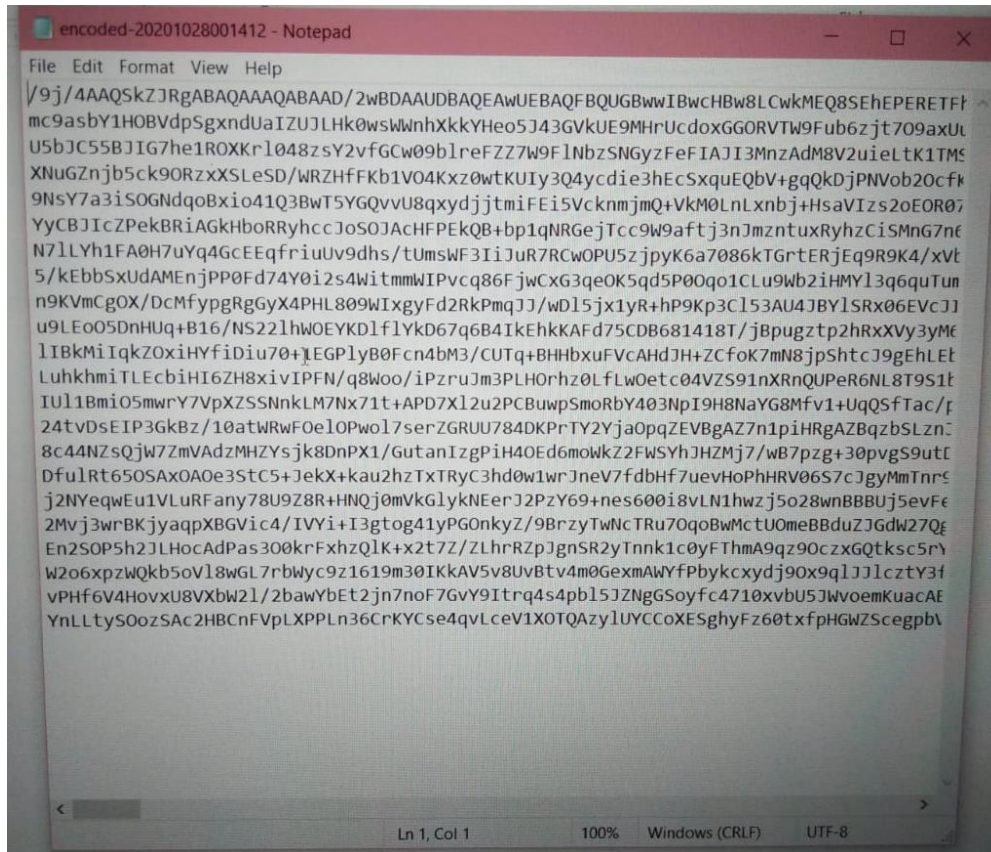
☒ Simpan Berkas

☐ Lakukan secara otomatis untuk berkas seperti ini mulai sekarang.

Oke Batal

**Success!**  
**CLICK OR TAP HERE** to download the encoded file.  
*Please note that this file is removed from our system right after the first download attempt or 15 minutes of inactivity.*

f) Hasil download dalam bentuk (.txt).






- a. pilih atau klik decode



### Decode files from Base64 format

 Click (or tap) here to select a file

 Maximum file size is 192MB.

☐ Decode each line separately (useful for multiple entries).

**< DECODE >**



- c. Kemudian klik “Decode” dan klik” click or tap here”

### Decode files from Base64 format

Select a file to upload and process, then you can download the decoded result.

Click (or tap) here to select a file

1

Maximum file size is 192MB.

☐ Decode each line separately (useful for multiple entries).

< DECODE >

Success!

CLICK OR TAP HERE to download the decoded file.

Please note that this file is removed from our system right after the first download attempt or 15 minutes of inactivity.

### Decode files from Base64 format

Select a file to upload and process, then you can download the decoded result.

1

Maximum file size is 192MB.

☐ Decode each line separately (useful for multiple entries).

< DECODE >

Success!

CLICK OR TAP HERE to download the decoded file.

Please note that this file is removed from our system right after the first download attempt or 15 minutes of inactivity.

Membuka decoded-20201028003538.jpeg

Anda memutuskan untuk membuka:

decoded-20201028003538.jpeg

adalah sebuah: JPEG Image (16,2 KB)

dari: <https://www.base64decode.org>

Apa yang sebaiknya Firefox lakukan dengan berkas ini?

☒ Buka dengan Foto (baku)

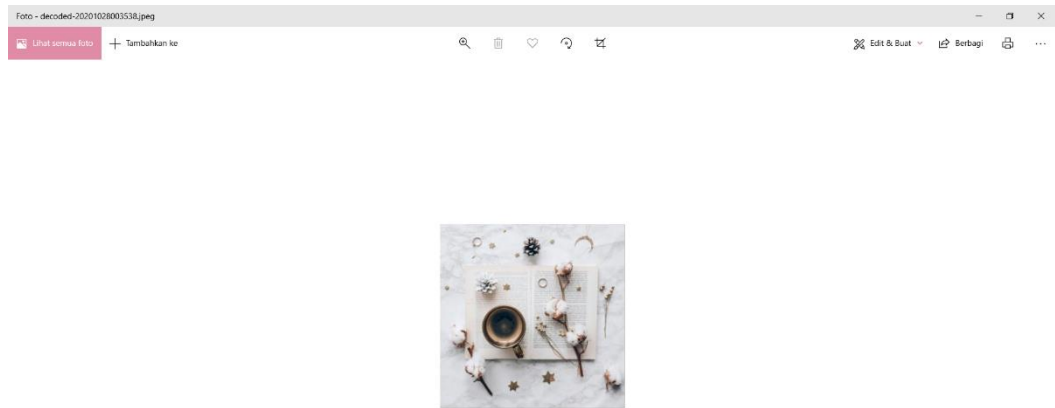
☐ Simpan Berkas

☐ Lakukan secara otomatis untuk berkas seperti ini mulai sekarang.

Oke

Batal

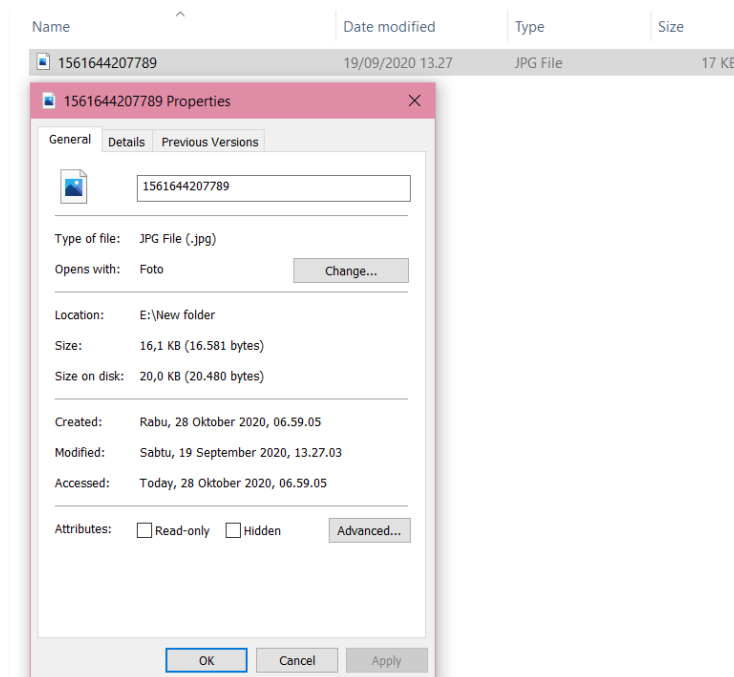
d. Inilah hasil download dimana file kembali dengan bentuk (.jpg)

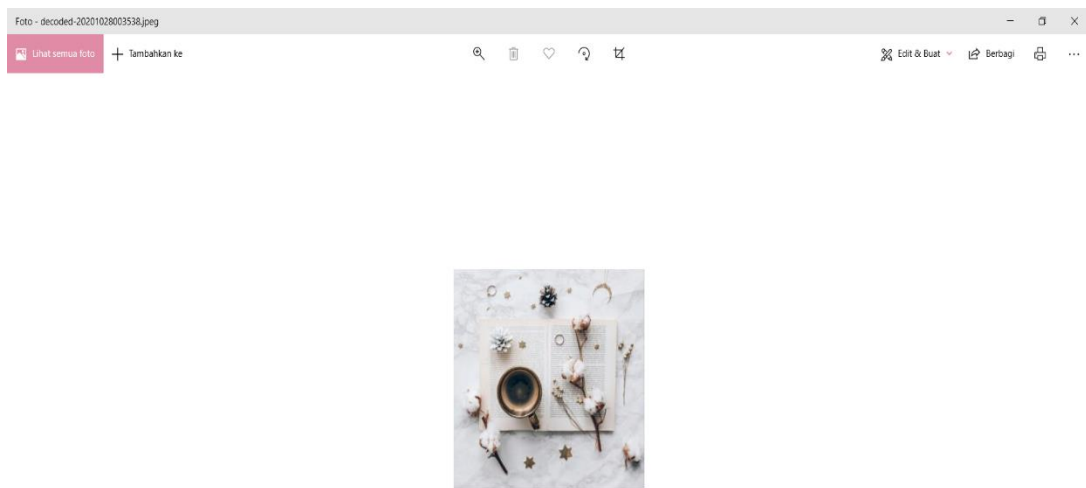


3. Lalu Encrypt foto tersebut dengan algoritma AES.

Encrypt ini tujuannya untuk menyembunyikan atau merahasiakan file yang kita kirim supaya tidak dapat dilihat oleh orang yang tidak berhak seperti saat mau kirim file melalui internet maka file tadi akan melalui banyak pihak misalnya ISP, Provider telfon, dll. maka file kita perlu dienkripsi supaya orang-orang tadi yang jalurnya dilewati oleh file kita tidak dapat melihat atau membuka file kita.

a. Pilih foto atau gambar dengan format (.jpg)





- b. Klik link berikut <https://www.devglan.com/online-tools/aes-encryption-decryption>
- c. Klik “choose file “ dengan format (.jpg)

A screenshot of the 'AES Online Encryption' and 'AES Online Decryption' tool interface. The left panel is titled 'AES Online Encryption' and contains a text input field 'Enter text to be Encrypted' with a placeholder 'Enter plain text to hash'. Below it is a file selection button labeled 'Telusuri...' with the text 'Tidak ada berkas dipilih.' and an arrow pointing to it. Further down are dropdown menus for 'Select Mode' (set to ECB) and 'Key Size in Bits' (set to 128), followed by an 'Enter Secret Key' field. At the bottom is an 'Output Text Format' section with radio buttons for 'Base64' (selected) and 'Hex', and an 'Encrypt' button. The right panel is titled 'AES Online Decryption' and contains a text input field 'Enter text to be Decrypted'. Below it are radio buttons for 'Input Text Format' (set to 'Base64') and 'Hex'. Further down are dropdown menus for 'Select Mode' (set to ECB) and 'Key Size in Bits' (set to 128), followed by an 'Enter Secret Key' field. At the bottom is a 'Decrypt' button. A footer section includes a logo for 'YKK Zipper' and an 'OPEN' button.

- d. Setelah itu masukkan secret key,kemudian pilih base64 atau hex.kemudian klik “encrypt”

← → ↻ 🏠 <https://www.devglan.com/online-tools/aes-encryption-decryption>

<devglan />  
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## AES Online Encryption

Enter text to be Encrypted

Enter plain text to hash

OR

Telusuri... 1561644207789.jpg

Select Mode

ECB

Key Size in Bits

128

Enter Secret Key

1808300011716099

Output Text Format: ●Base64 ○Hex

Encrypt

## AES Online Decryption

Enter text to be Decrypted

Enter text to Decrypt

Input Text Format: ●Base64 ○Hex

Select Mode

ECB

Key Size in Bits

128

Enter Secret Key

Enter secret key

Decrypt

dpjaya.com  
DP Jaya

OPEN

- e. Ini adalah hasil dari encrypt dimana bisa dikirim ke orang lain.misalnya pasang di text file, sedangkan enkripsi ini tidak dapat dikembalikan menjadi file aslinya kecuali kita harus punya secret keynya.makanya secretnya harus dirahasiakan supaya orang lain tidak dapat mengembalikan file asli.

128

Enter Secret Key

1808300011716099

Output Text Format: ○Base64 ●Hex

Encrypt

YKK Zipper

OPEN

AES Encrypted Output:

```
09E15B4793AF63EAA5E14B8DE706426E058A3
0C971A4744D69588C0254CD57424A9F4B4D
8C0C33EDD4333E7A9ECDCF643F45606DF3D
5DE926A2F8D3237B8D0F3F05ADB977A92IDE
3D43334D266C500D447EBD29EA5E50F4A03
4E3227A21454A1CDBE6D386A06EF0EA82DEC
```

128

Enter Secret Key

Enter secret key

Decrypt

YKK Zipper

OPEN

AES Decrypted Output (Base64):

Base64 encoded result goes here

Decode to Plain Text

Plain text will appear here

- f. Lalu simpan hasil enkripsi dengan file (.txt)

4. Enkripsi kode hash dari secret key yang digunakan dengan algoritma MD5

- a. Klik link : [//www.md5online.org/md5-encrypt.html](http://www.md5online.org/md5-encrypt.html)

## MD5 Encryption

Enter a word here to get its MD5 hash :

Crypt

No credit required in this tool

## What does MD5 mean?

MD5 is the abbreviation of 'Message-Digest algorithm 5'.

The MD5 algorithm is used as an encryption or fingerprint function for a file.

Often used to encrypt database passwords, MD5 is also able to generate a file thumbprint to ensure that a file is identical after a transfer for example.

An MD5 hash is composed of 32 hexadecimal characters.

Enter a word in the MD5 encryption form above to know the corresponding MD5 hash

- b. Kemudian copykan secret key pada MD5 Encryption

## MD5 Encryption

Enter a word here to get its MD5 hash :

1808300011716099

Crypt

No credit required in this tool

## What does MD5 mean?

MD5 is the abbreviation of 'Message-Digest algorithm 5'.

The MD5 algorithm is used as an encryption or fingerprint function for a file.

Often used to encrypt database passwords, MD5 is also able to generate a file thumbprint to ensure that a file is identical after a transfer for example.

An MD5 hash is composed of 32 hexadecimal characters.

Enter a word in the MD5 encryption form above to know the corresponding MD5 hash

- c. Inilah kode hash dari secret key yang digunakan dengan algoritma MD5

## MD5 Encryption

Enter a word here to get its MD5 hash :

Crypt

No credit required in this tool

The MD5 hash for 1808300011716099 is : **73428bccbfc44a4252334b1e43ea363d**

## What does MD5 mean?

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The MD5 algorithm is used as an encryption or fingerprint function for a file.

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Enter a word in the MD5 encryption form above to know the corresponding MD5 hash