

LAB # 3 – AES ENCRYPTION STUDENTS MANUAL

FUNCTION: ENCRYPTING PLAIN TEXT [1/3]

STEP 1 : VISIT THE SITE [HTTP://AES.ONLINE-DOMAIN-TOOLS.COM/](http://AES.ONLINE-DOMAIN-TOOLS.COM/)

STEP 2:

Input type: Text

Input text:
(plain)

☒ Plaintext ☐ Hex Autodetect: **ON** | OFF

Function: AES

Mode: ECB (electronic codebook)

Key:
(plain)

☒ Plaintext ☐ Hex

> Encrypt! > Decrypt! ▶ 🔗

1. SELECT 'TEXT' FROM THE DROP DOWN

STEP 1 : VISIT THE SITE [HTTP://AES.ONLINE-DOMAIN-TOOLS.COM/](http://AES.ONLINE-DOMAIN-TOOLS.COM/)

STEP 2:

Input type:

Text

Input text:
(plain)

HELLO, WORLD!

☒ Plaintext ☐ Hex

Autodetect: ON | OFF

Function:

AES

Mode:

ECB (electronic codebook)

Key:
(plain)

PL@YERSAG3!\$

☒ Plaintext ☐ Hex

> Encrypt! > Decrypt!

2. ENTER THE MESSAGE IN PLAIN TEXT THAT IS TO BE ENCRYPTED

3. ENSURE 'PLAIN TEXT' IS SELECTED

4. TRY DIFFERENT MODES FROM HERE

6. ENTER A STRONG KEY HERE COMBINATION OF LETTERS, NUMBERS AND SPL. CHARACTERS

7. CLICK 'ENCRYPT'

STEP 1 : VISIT THE SITE [HTTP://AES.ONLINE-DOMAIN-TOOLS.COM/](http://AES.ONLINE-DOMAIN-TOOLS.COM/)

STEP 2:

Input type: Text

Input text:
(plain)

HELLO, WORLD!

☒ Plaintext ☐ Hex Autodetect: ON | OFF

Function: AES

Mode: ECB (electronic codebook)

Key:
(plain)

☒ Plaintext ☐ Hex

> Encrypt! > Decrypt!

2. ENTER THE MESSAGE IN PLAIN
TEXT THAT IS TO BE ENCRYPTED

3. ENSURE 'PLAIN TEXT' IS SELECTED

4. TRY DIFFERENT MODES FROM
HERE

5. CLICK 'ENCRYPT'



STEP 3 : COPY AND SAVE THE ENCRYPTED/CIPHER TEXT GENERATED AFTER ENCRYPTION

Key:
(plain)

Players3@g3!\$\$

☒ Plaintext ☐ Hex





> Encrypt! > Decrypt!

Encrypted text:

00000000

da 00 2a b4 91 f3 f7 d4 87 bb 22 25 9f 2a ec 6f

[Download as a binary file] [?]

Inactive

COPY AND SAVE THE CIPHER
TEXT IN A NOTEPAD

STEP 1 : **REFRESH** THE SITE [HTTP://AES.ONLINE-DOMAIN-TOOLS.COM/](http://AES.ONLINE-DOMAIN-TOOLS.COM/)

STEP 2:

Input type: Text

Input text:
(plain)

21 15 21 89 55 5A F7 B9 62 00 72 60 2C 8F 54 08

☒ Plaintext ☐ Hex Autodetect: ON | OFF

Function: AES

Mode: ECB (electronic codebook)

Key:
(plain)

☒ Plaintext ☐ Hex

> Encrypt! > Decrypt!

2. ENTER THE CIPHER TEXT COPIED
IN THE NOTEPAD

3. ENSURE 'HEX' IS SELECTED

4. ENSURE SAME MODE IS USED

5. CLICK 'DECRYPT'

STEP 3 : COPY AND SAVE THE ENCRYPTED/CIPHER TEXT GENERATED AFTER ENCRYPTION

Key:
(plain)

Players3@g3!\$\$



☒ Plaintext ☐ Hex

Init. vector:

84 42 a3 cb 1a 7d a7 b7 20 5f 53 f1 6e 68 1f 32

> Encrypt!

> Decrypt!



Initialization vector:

8442a3cb1a7da7b7205f53f16e681f32 (256 bits)

Decrypted text:

00000000 48 65 6c 6c 6f 2c 20 57 6f 72 6c 64 21 00 00 00

Hello , World !

Inactive

[\[Download as a binary file\] \[?\]](#)

VERIFY THE ORIGINAL
PLAIN TEXT MESSAGE