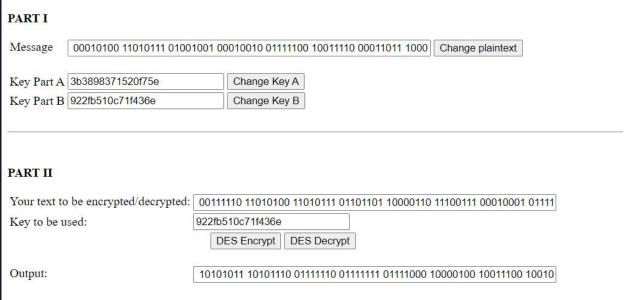
DES to 3-DES:

Encryption:

Encrypt plaintext with Key A.

, , , , , , , , , , , , , , , , , , ,	
PART I	
Message 00010100 11010111 0	001001 00010010 01111100 10011110 00011011
Key Part A 3b3898371520f75e	Change Key A
Key Part B 922fb510c71f436e	Change Key B
PART II Your text to be encrypted/decrypted	ed: 00010100 11010111 01001001 00010010 0111111
Key to be used:	3b3898371520f75e
	DES Encrypt DES Decrypt
Output:	00111110 11010100 11010111 01101101 10000110 11100111 00010001 01111

Use the Encrypeted text and Decrypt it with Key B.



Use the Decrypted text and Encrypt it with Key A again. Then check your

PART I					
Message	00010100 11010111 01001	001 00010010 01111100 10011110 00011011 1000 Change plaintext			
Key Part A	3b3898371520f75e	Change Key A			
Key Part B	Key Part B 922fb510c71f436e Change Key B				
PART II					
Your text to	be encrypted/decrypted:	10101011 10101110 01111110 01111111 01111000 10000100 10011100 10010			
Key to be u	3b3898371520f75e				
		DES Encrypt DES Decrypt			
Output:	[00011101 11100100 10001000 01101111 11010001 00011011			
PART III					
Enter your a	answer here:				
00011101 1	1100100 10001000 0110111	1 11010001 00011011 00110000 1100			
Check Answ	wer!				
CORRECT	!				

Decryption:

Take the output of Encryption and decrypt it with Key A.

Message	00010100 11010111 010	01001 00010010 011111100 100111110 00011011
Key Part A	3b3898371520f75e	Change Key A
Key Part B	922fb510c71f436e	Change Key B
PART II		
	be encrypted/decrypted	00011101 11100100 10001000 01101111 11010001 00011011
	18 Table 2 Const. Const	3b3898371520f75e
Your text to	18 Table 2 Const. Const	

Use the decrypted text and encrypt it with Key B.

PART I				
Message	Message 00010100 11010111 01001001 00010010 01111100 10011110 00011011			
Key Part A	3b3898371520f75e	Change Key A		
Key Part B	922fb510c71f436e	Change Key B		
PART II Your text to	be encrypted/decrypted:	10101011 10101110 01111110 01111111 01111000 10000100 10011100 10010		
		10101011 10101110 011111110 011111111 011111000 10000100 10011100 10010 922fb510c71f436e		

Use this encrypted text and decrypt it with Key A.

Message	00010100 11010111 0100	001 00010010 01111100 10011110 00011011 1000 Change plain	ntext
Key Part A	3b3898371520f75e	Change Key A	
Key Part B	922fb510c71f436e	Change Key B	
PART II			
	be encrypted/decrypted:	00111110 11010100 11010111 01101101 10000110 11100111 000	10001 0
	33	3b3898371520f75e	10001 0
Your text to	33	1	10001 01

As the plaintext and ciphertext are the same, thus Encryption and Decryption in DES to 3DES is successful

AES

Encrypt line by line with Key.

PART I
Choose your mode of operation: [Electronic Code Book (ECB) ▼
PART II
Key size in bits: 128 ♥
3cefbd5d 940515b4 8e333c0b 245e9de1 0712237a 4d02f95a c5cb094d eece0de9 9651010b ceaeff13 2db6e98 5a9fe227 cdd93173 82129970 80c6fcb3 5e51d74f 02f19778 53a050fb b6538a6b 985bd164 Plaintext: Next Plaintext Key: 4562e591 bad8dcd3 2e8ede35 52311cbc Next Keytext
IV: Next IV
CTR: Next CTR
PART III Calculate XOR: Calculate XOR XOR: Calculate XOR
PART IV
Key in hex: 4562e591 bad8dcd3 2e8ede35 52311cbc Plaintext in hex: 9651010b caeaff13 2d6bc988 5a9fe227 Ciphertext in hex: 7be88ccf 30ce2e45 71abe159 f5c849a8 Encrypt Decrypt Clear
PART V
Enter your answer here:
Check Answerl

30

,					
PART I					
Choose your mod	le of operation: Electronic Code Book (ECB) 🗸				
U)					
PART II					
Key size in bit:	s: 128 🕶				
3 41	JEJ 04054514 0-2222-01-245-04-1	7			
07122	d5d 940515b4 8e333c0b 245e9de1 37a 4d02f95a c5cb094d eeee0de9				
	10b caeaff13 2d6bc988 5a9fe227 173 82129970 80c6fcb3 5e51d74f				
	778 53a050fb b6538a6b 985bd164	(N . D)		62e591 bad8dcd3 2e8ede35 52311cbc	
Plaintext:IV:			aintext Key: 45		Next Keytext
E	T _z	xt IV			
CTR:		Next CTR)		
PART III					
Calculate XOR:					
P.	1				
- F					
SI.	<u> </u>	Calculate X0	OR		
XOR:	li				
E					*
PART IV					
Key in hex:	4562e591 bad8dcd3 2e8ede35 52311cbc				
Plaintext in hex:	cdd93173 82129970 80c6fcb3 5e51d74f				
Ciphertext in hex					
	Encrypt Decrypt Clear				
					4
PART V					
Enter your answe	r here:				
		Ch	heck Answer!		
IS.					
PART I					
Choose your mo	de of operation: Electronic Code Book (ECB) 🗸				
PART II					
Key size in bit	s: 128 🕶				
3cef	bd5d 940515b4 8e333c0b 245e9de1				
	237a 4d02f95a c5cb094d eeee0de9 010b caeaff13 2d6bc988 5a9fe227				
cdd9	3173 82129970 80c6fcb3 5e51d74f				
Plaintext: 0211	9778 53a050fb b6538a6b 985bd164	// Next	t Plaintext Key:	4562e591 bad8dcd3 2e8ede35 52311cbc	Next Keytext
IV:	4	Next IV			
CTR:		Next CTI	P		
-		I IVEXT OT			
PART III					
Calculate XOR:					
	le	Calculate	e XOR		
XOR:					
AOR.					
PART IV					
	4502-504 h-404 12 2 2 1 25 500 to				
Key in hex:	4562e591 bad8dcd3 2e8ede35 52311cbc				
Plaintext in hex					
Ciphertext in he					
	Encrypt Decrypt Clear				
PART V					
	•				
Enter your answ	er here:				
			Check Answer!		

CORRECT!!

PART I Choose your mode of operation: Electronic Code Book (ECB) 🗸 PART II Key size in bits: 128 ✔ 3cefbd5d 940515b4 8e333c0b 245e9de1 0712237a 4d02f95a c5cb094d eeee0de9 9651010b caeaff13 2d6bc988 5a9fe227 cdd93173 82129970 80c6fcb5 5e51d74f 02f19778 53a050fb b6538a6b 985bd164 Next Plaintext Key: 4562e591 bad8dcd3 2e8ede35 52311cbc Plaintext: Next Keytext IV: Next IV CTR: Next CTR PART III Calculate XOR Calculate XOR XOR: PART IV 4562e591 bad8dcd3 2e8ede35 52311cbc Key in hex: Plaintext in hex: 02f19778 53a050fb b6538a6b 985bd164 Ciphertext in hex: e99e3627 e41e7361 825cf46f 98e2f11b Encrypt Decrypt Clear PART V Enter your answer here: 83677d87 a726ba39 60a496b3 104a6be9 e8baa632 cb1a2ec0 ceeb5198 b1362 Check Answer!