IS ASSIGNMENT 1

Wahaj Javed Alam – (20K-0208)

Implementation of AES:

AES-128:

| Made by Wahaj Javed (20K-0208)
| Enter plaintext: You leave, you are no longer a part of this. You become a zero. If you stay, if you want to change the world, you become a yes. You become a one.
| Enter key Size (128, 192, 256): 128
| Enter key Size (128, 192, 256): 128
| Encrypting...
| Encrypting...
| Hex Representation of Plain Text: 596f75206c656176652c20796f7520617265206e6f206c6f6e67657220612070617274206f6620746869732e20596f7520626536f6d652061207a65726f2e204461792c20696620796f752077616e7420746f206368616e67652074686520776f726c642c20796f75206265636f6d652061207965732e20596f75206265636f6d652061206f6e652e
| Hex Representation of Key: fb946959d74d7bee41a84f81c9fa110e
| Number of Blocks: 10
| Number of Round Keys: 44
| Cipher Text: 47929bd588678e5660f57152ea078788995c5ba36be02d98cc8f00b3004c7843d58bbfa329bec2f8c5be3301af898c55f66d69b538360c7f2dc65a3fca202759c56c9a75935ee537384d347f80d17bd72181e2d8ce3c6130730daed8620947e0020234aad245513b8235a4dc0146bf4c25709812eb956e2b8c54fd1f913230bada23d0f53fbc4f4ff32cbbb2f95872c2fa32fc58eb4a164a
| Decrypting...
| Number of Round Keys: 44
| Decrypting...

AES-192:

PS D:\AES> python -u "d:\AES\20k-0208 AES.py"

AES encryption

PS D:\AES>

• PS D:\AES> python -u "d:\AES\20k-0208_AES.py"

[+] AES encryption

PS D:\AES>

Plaintext: You leave, you are no longer a part of this. You become a zero. If you stay, if you want to change the world, you become a yes. You become a one.

AES-256:

- PS D:\AES> python -u "d:\AES\20k-0208 AES.py
- [+] AES encryption
- [+] Made by Wahaj Javed (20K-0208)
 [+] Enter plaintext: You leave, you are no longer a part of this. You become a zero. If you stay, if you want to change the world, you become a yes. You become a one.
 [+] Enter Key Size (128, 192, 256): 256

- [+] Encrypting... (+) Encrypti 461792c20696620796f752077616e7420746f206368616e67652074686520776f726c642c20796f75206265636f6d652061207965732e20596f75206265636f6d652061206f6e652e
- [+] Hex Representation of Key: fa69cb5ed4fe67838cfc0680381785bce1422e5d4bca65ee336e4887ac7329b4
- [+] Number of Blocks: 10 [+] Number of Round Keys: 60
- [+] Cipher Text: 291631213fac9d3705fdac54aef2733821ab67dcc599046a046beaec87911d6671dacfdabda76af067052102db03fd276e2aa94f86c5b860caa65c5338a2c656c37a61882be6e5dfc6eb535ccfbae4b60ef940 ec2323f9c40131c5ec2b955777d885a1b5c46b3f1a614556b316c5fcb816e8ede3e60510ad029ac99b8248ed8920dfc57f1c5360391dcd608af2868f3a8610c27f0d44f8fe88fa2fa7e59f93c9
- [+] Decrypting...
- Number of Round Keys: 60
- [+] Plaintext: You leave, you are no longer a part of this. You become a zero. If you stay, if you want to change the world, you become a yes. You become a one.
- O PS D:\AES>