

Fall 2025 CIS 3362 Week One Assignment (Financial Aid Assignment)

Assigned: 8/24/2026

Due: 8/28/2026 (via Webcourses), late turn in 9/2/2026

For questions 1 – 3, decode each message. The techniques used to encrypt the messages are given in parentheses right before the ciphertext. In your write-up, explain the process you used to decrypt and include any code you might have used as an aid.

Please do NOT use websites that automatically solve ciphers. Your grade will be based on description of the decryption process and original code you include in your write up.

1) (shift)

hvwgvogpssbobwbqfsrwpzvchgiasfzshgvcdsksrcrihaszh

2) (shift)

grrngorzugrsgsgzkxcnuykhgttkxhrgiqgtjmurjcorrcgbkotlgskggtjyv
rktjuxgyznkvgyyotmekgxyatlurjsgeruegrzegtjlxoktjynovcoznotua
xnkgxzyatozkgtjromnznkyzgxzumaojkaykbkxavcgxjotuaaxlromnzc
nnutuxgtjgllkizoutuaxlxktjynovcorrxtkckkyotmulznkkuaxgrsgsg
zkxkbkxxak

3) (affine)

jpkczmzigscqrkynmxmjiszsdjpkjpixjkkzczi jkrqjmjkqsdmgkxiymopk
zizjpkyscxqksdpcgmzkvkzjqijfkysgkqzkykqmxadsxszklslnkjsriq
qsnvkjpklsnijiymnfmzrqopiypmvkyszzkyjkrjpkgoijpmzsjpkxmzrjs
mqqcgkmgszwjpklsokxqsdjpkkmxjppkqklmxmjkmzrkecmnqjmjis zjsop
iypjpkmoqsdzmjcxkmzrsdmjcxkqwsrkzji jnkjpkgmrkykzjxkqlkyjjs
jpksliziszqsdgmzui zrxkeci xkqjpmjjpkaqpscnrrkynmxkjpkymcqkqop
iypiglnjpkgjsjpkqklmxmjisz

4) The affine cipher for a language with 45 letters has the encryption keys $a = 28$ and $b = 16$. What are the corresponding decryption keys?

Files to Submit

Please submit a .pdf, .doc or .docx file with your write up describing how you broke each cipher (1-3). Most of your grade is based on describing your process and not the final answer. In short, you are being graded on your ability to communicate the process of what you did in addition to whether or not you can break the cipher. If you write any programs, you may either include the text of the program in the write up or attach those programs as separate .java, .c, .cpp, or .py files. Please write out your work for #4 and provide the corresponding decryption keys.