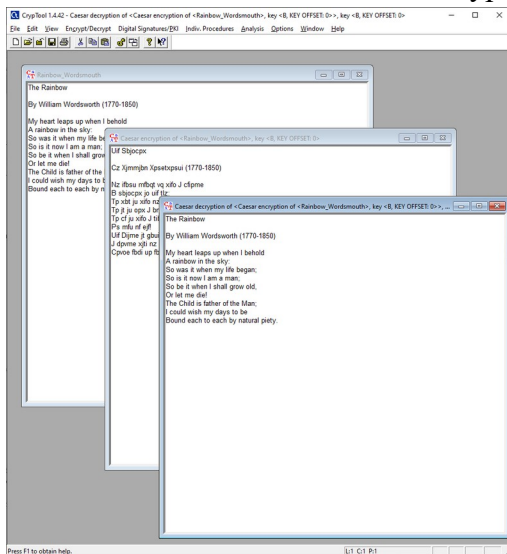


Lab 4 - Cryptography

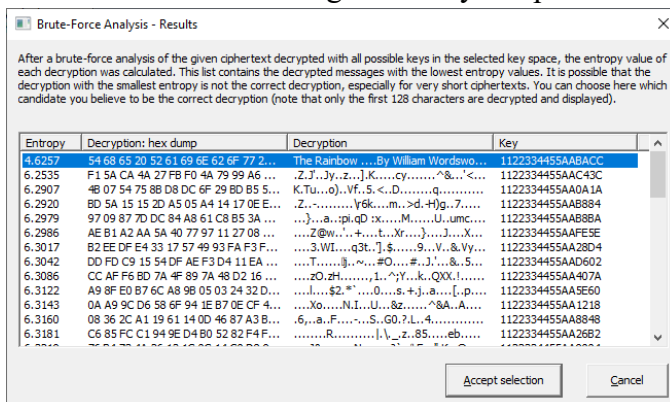
- This is a lab assignment, and worth 5 points.
- The due date is midnight on the day it is posted. It will be graded as pass/fail (5 or 0 points). Submit this outcome file.

Answer the following questions.

1. Were you able to crack the text encrypted with Caesar/Rot-13 using Analysis > Symmetric Encryption (classic)? (Y / N)
Yes I was able to crack the text encryption.

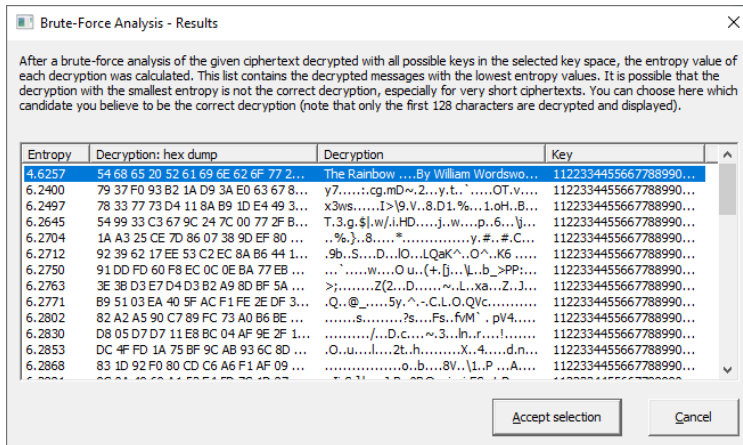


2. How long did it take to brute force the key for the text encrypted with DES (ECB) when the last four hex codes of the key are not known?
It was instantaneous using the Analysis option and brute forcing the last four digits.



3. How long did it take to brute force the key for the text encrypted with Reijndael (AES) when the last four hex codes of the key are not known?

It would still take more time than the previous DES one since there are more keys in it but it was still instant.



4. Were you able to verify the digital signature? (Y / N)

Yes

5. Are the hash values for CrypTool 1.4.42 (what you have calculated and the one on the cryptool.org website) the same? (Yes / No)

The SHA-256 hash is the same as on the website once you run it. But it is different if you use the MD5 hash value. SHA-256 is the same but MD5 is not.

