

Homework Encryption Activity

Homework Activity: Encryption Decryption

In this assignment, I worked on decrypting a monoalphabetic substitution cipher. I analyzed the ciphertext, noted the frequency of symbols, and identified patterns in the code. I discovered that the pairs starting with "6" or "7" and the "20" pairs were spaces. Using these patterns, I converted the hexadecimal code to ASCII to reveal the hidden message.

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Home > Conversion > Number conversion > ASCII Hex to text string

Hex to String Converter

Enter hex code bytes with any prefix / postfix / delimiter and press the *Convert* button (e.g. 45 78 61 6d 70 6C 65 21):

From

Hexadecimal

To

Text

Open File Sample

Paste hex code numbers or drop file

0:6d:65:73:73:61:67:65:20:62:65:63:61:75:73:65:20:62:67:74:68:20:68:65:78:61:64:65:63:69:6d:61:6c:20:61:6e:64:20:41:53:43:49:49:20:61:72:65:20:77:65:6c:6c:20:6b:6e:6f:77:6e:20:63:68:61:72:61:63:74:65:72:20:73:65:74:73:20:61:6e:64:20:74:68:65:72:65:20:61:72:65:20:61:75:74:6f:6d:61:74:69:63:20:63:6f:6e:76:65:72:74:65:72:73:20:6f:6e:6c:69:6e:65:2e

Character encoding


ASCII

Convert Reset Swap

This is not a secure message because both hexadecimal and ASCII are well known character sets and there are automatic converters online.

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Text to hex converter



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NUMBER CONVERSION

- ASCII,Hex,Binary,Decimal converter
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[Hex to String | Hex to ASCII Converter](#)

This exercise helped me understand how early ciphers worked and how frequency analysis and pattern recognition can be used to break simple encryption schemes.