

SMP Cryptography 2020

Assignment 1

1)Convert hex to base64

The string:

49276d206b696c6c696e6720796f757220627261696e206c696b65206120706f69736f6e6f7573 206d757368726f6f6d

Should produce:

SSdtIGtpbGxpbmcgeW91ciBicmFpbiBsaWtIIGEgcG9pc29ub3VzIG11c2hyb29t

So go ahead and make that happen. You'll need to use this code for the rest of the exercises.

2) Fixed XOR

Write a function that takes two equal-length buffers and produces their XOR combination. If your function works properly, then when you feed it the string:

1c0111001f010100061a024b53535009181c

... after hex decoding, and when XOR'd against:

686974207468652062756c6c277320657965

... should produce:

746865206b696420646f6e277420706c6179

Submission Date: Monday (4-5-2020)