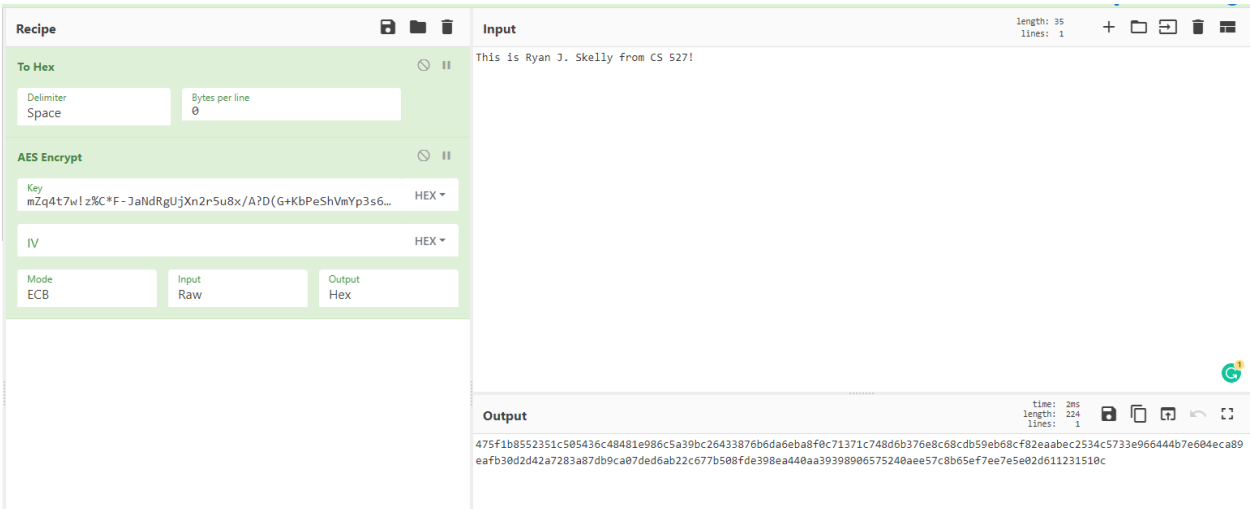
Ryan J. Skelly CS527: Lab 02 3/9/22

AES ENCRYPT/DECRYPT:

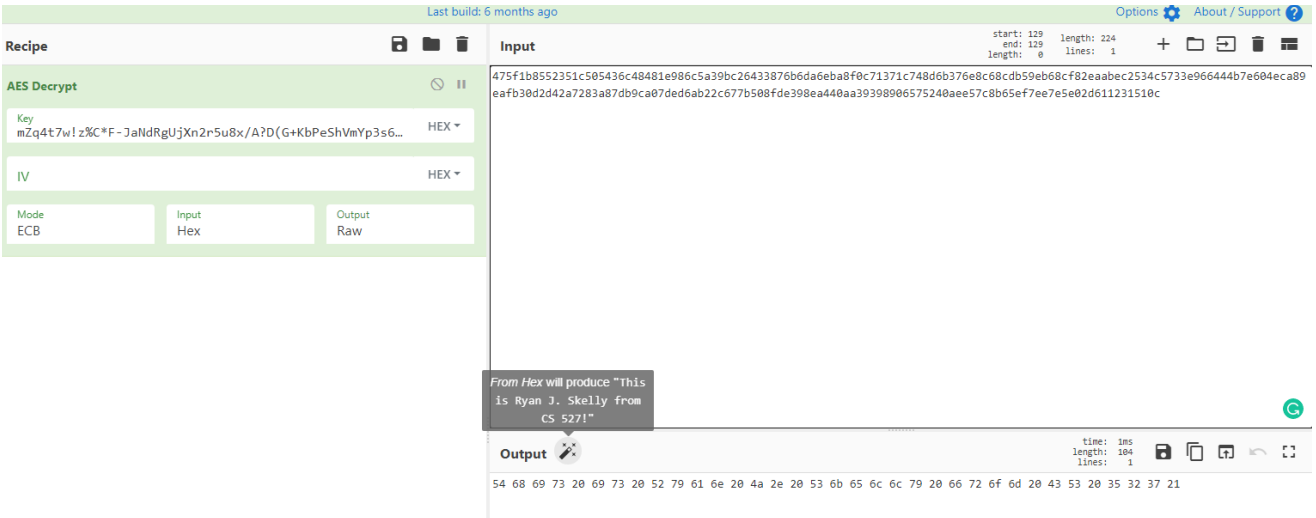
1.)



KEY:
mZq4t7w!z%C*F-JaNdRgUjXn2r5u8x/A?D(G+KbPeShVmYp3s6v9y$B&E)H@McQfTjWnZr4t7w
!z%C*F-JaNdRgUkXp2s5v8x/A?D(G+KbP

IN: This is Ryan J. Skelly from CS 527!
OUT:
475f1b8552351c505436c48481e986c5a39bc26433876b6da6eba8f0c71371c748d6b376e8c68c
db59eb68cf82eaabec2534c5733e966444b7e604eca89eafb30d2d42a7283a87db9ca07ded6ab2
2c677b508fde398ea440aa39398906575240aee57c8b65ef7ee7e5e02d611231510c

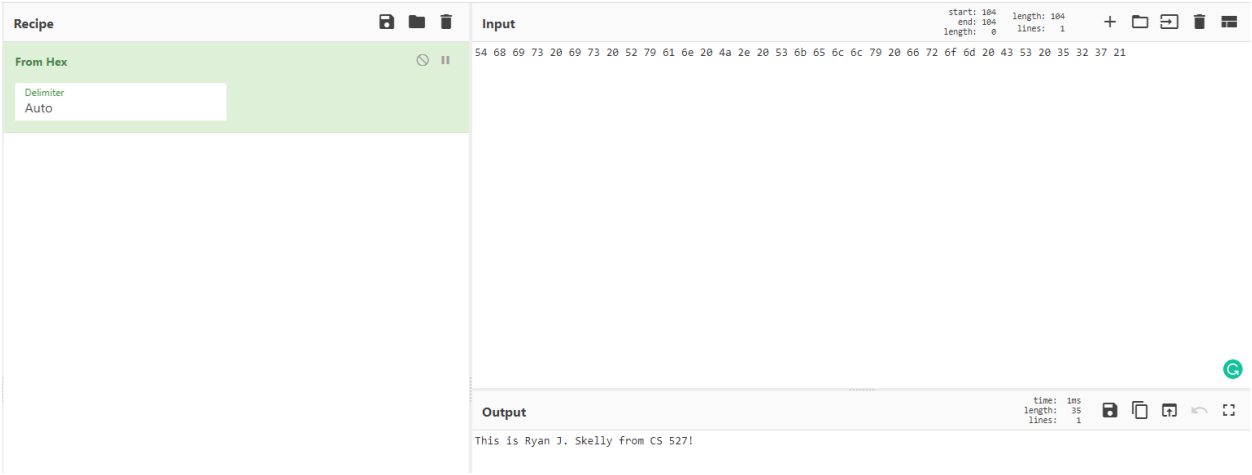
2.)



KEY:
mZq4t7w!z%C*F-JaNdRgUjXn2r5u8x/A?D(G+KbPeShVmYp3s6v9y$B&E)H@McQfTjWnZr4t7w!z%C*F-JaNdRgUkXp2s5v8x/A?D(G+KbP

IN:
475f1b8552351c505436c48481e986c5a39bc26433876b6da6eba8f0c71371c748d6b376e8c68cdb59eb68cf82eaabec2534c5733e966444b7e604eca89eafb30d2d42a7283a87db9ca07ded6ab22c677b508fde398ea440aa39398906575240aee57c8b65ef7ee7e5e02d611231510c
OUT: 54 68 69 73 20 69 73 20 52 79 61 6e 20 4a 2e 20 53 6b 65 6c 6c 79 20 66 72 6f 6d 20 43 53 20 35 32 37 21

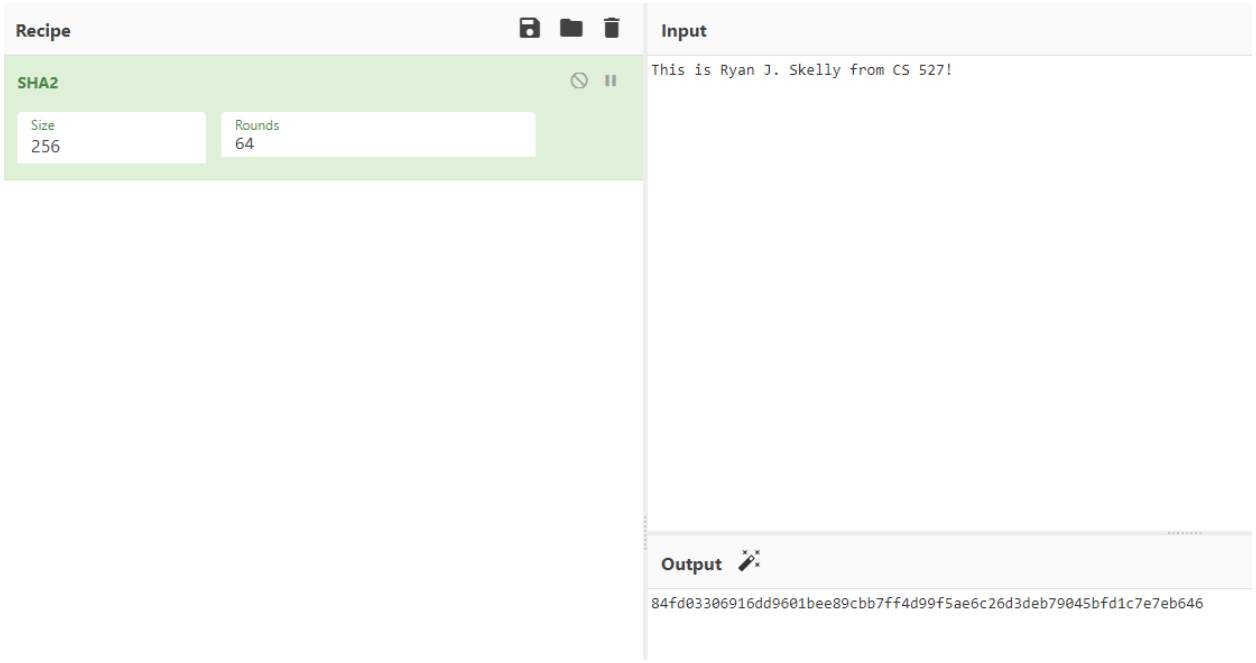
The Decryption method can only output in raw 16bit text, or Hex text, hence why the Output has hex formatted text.



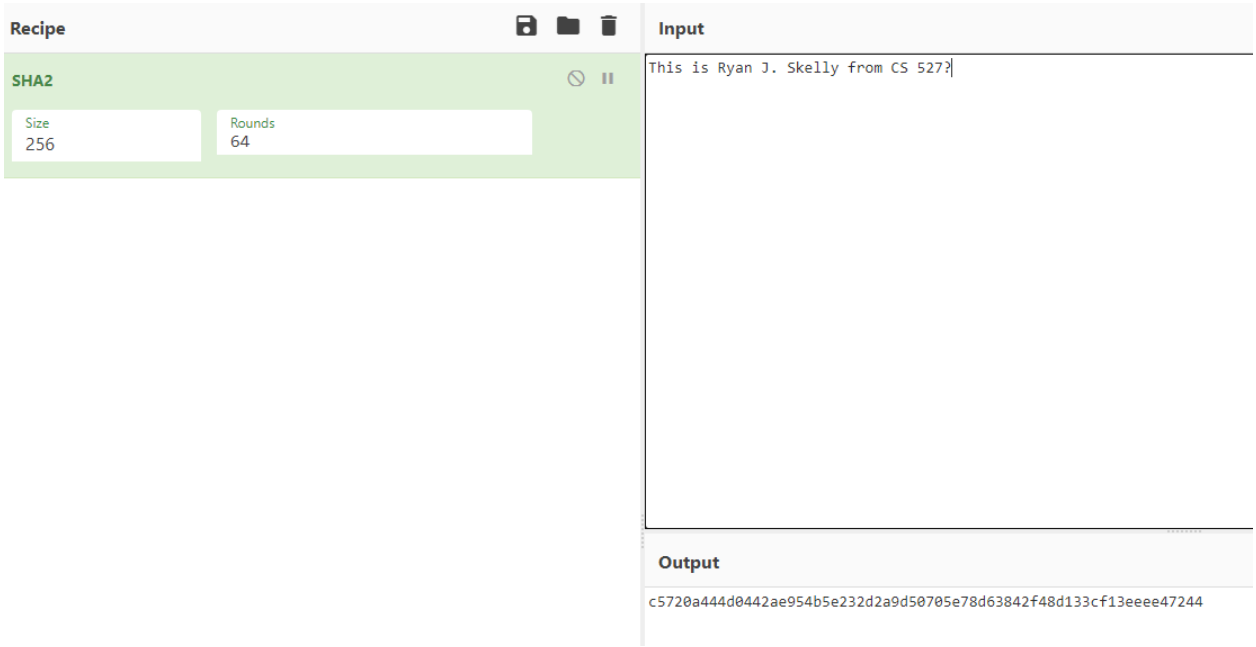
IN: 54 68 69 73 20 69 73 20 52 79 61 6e 20 4a 2e 20 53 6b 65 6c 6c 79 20 66 72 6f 6d 20 43 53 20 35 32 37 21
OUT: This is Ryan J. Skelly from CS 527!

Since the decryption method would output Hex formatted text, I had to convert it back to Unicode.

HASH TEXT:
1.)



2.)



The output text changes drastically due to the nature of hash functions scrambling the original text so it “can’t” be decoded.