HW7

Input: Boku no Kokoro no Yabai Yatsu is the greatest romance, slice of life manga I've ever read. It is a series of constant progress that respects the reader's time and trusts them to read between the lines - Characters make mistakes and learn from them. Misunderstandings are never used to pad out the story, and never feel cheap. Progress is never undone. It is one of the most fully realized depictions of the liminal space between two young people as they begin to fall in love - The roller coaster between bubbly feelings and crippling cringe that is first love is so difficult to portray. I've never encountered another manga that has managed to capture this specific feeling so accurately and with so much detail.

Output: 84f353348a552229554fba7ba822005edcb6bca2fac8cf1735d53ae9e2915aa2e625f6d3cfa0106c8707ff0004d3ce95281b47b851b380ef91c86d2fb0e58b28

Explanation:

I have imported the input txt and save it as bitvector and then follow the steps in lecture for 4 step, and I basically modify the code in SHA256 python file to appropriate initialization vector and K value. I first pad the input message so it is multiple of 1024, then create the message schedule to let it do the correct circular shift and right shift for sigma, and then carry out a round-based processing of a 1024-bit input message block, and at the end I add the initialized vector with processed vector, and concatenate the contents of the hash buffer to get the 1024 element bitvector object.