*Function* cca\_secure

*Input Arguments*

* m- plain text, binary string
* iv-initialization vector, binary string
* block\_length- integer
* k- key, binary string

*Output*

Cipher text – binary string

*Logic*

1. This function calls the cpa\_secure with the respective inputs.
2. The output obtained above is the CPA secure cipher text. It given as input for the function call cbc\_mac and generates CMAC
3. The final output is CMAC concatenated to cipher text.

*Usage*

This function is used to generate CCA secure cipher text that is sent to the receiver.