PROJECT SUMMARY

Key Generation:

- Key 1: Alphanumeric Key
- Key 2: Numeric Key
- Key 3: Shuffling Key 1 with random function(48 bits)
- Key 4: Expanding Key 2 into its summation as same length of key 3. (48 bits).
- Key 4 is converted into binary digits.
- Key 5: Applying XOR function on Key 3 and Key 4. (48 bits)
- Key 6: Applying 8 S-Box on Key5. (32 bits)
- Key 6(32 bits) is our final key for encryption and decryption.

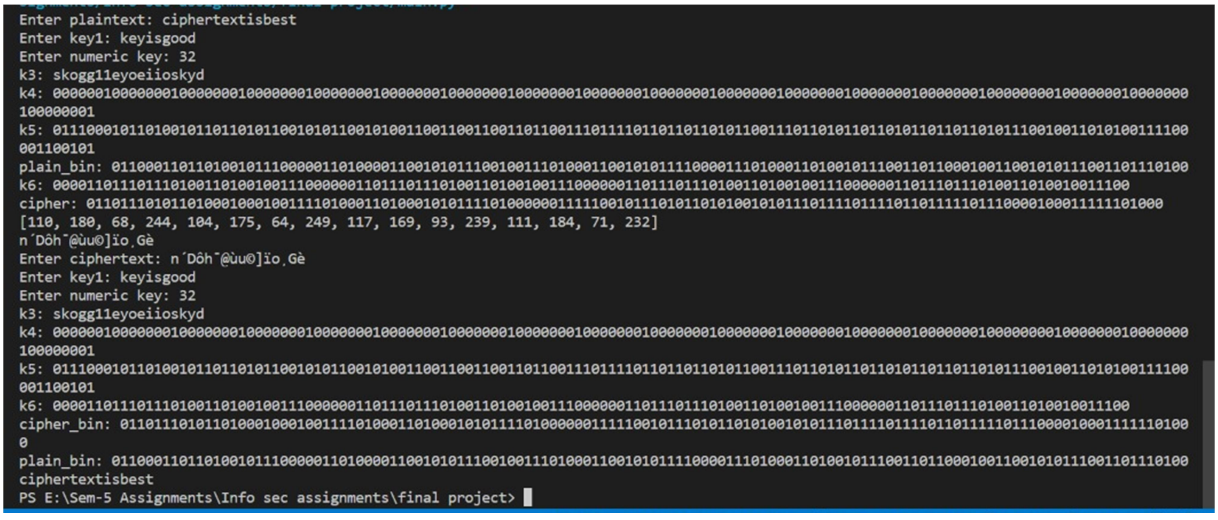
Encryption:

- XOR function is performed between Key 6 and plain text.

Decryption:

- XOR function is performed between Key 6 and cipher text.

Example:



Flowchart of 2K Algorithm: