**AES Encryption**

**Question 1:**

**Plaintext**: 000102030405060708090A0B0C0D0E0F

**Key**: 01010101010101010101010101010101

* **how the original contents of state, displayed as a 4x4 matrix.**
* **Show the value of state after initial AddRoundKey.**
* **Show the value of State after SubBytes.**
* **Show the value of State after ShiftRows.**
* **Show the value of State after MixColumns.**