```
##############################################################

  Block Cipher Modes of Operation

      CMAC Mode for Authentication (CMAC)

##############################################################

CMAC-TDES (Generation)
--------------------------------------------------------------

Key1 is
    01234567 89ABCDEF
Key2 is
    23456789 ABCDEF01
Key3 is
    456789AB CDEF0123
==============================================================

Sample #1

Plaintext is
    <empty>
Tag length = 8

----------------------------

Full Blocks

  L    4EBA739C 998BCB60

----------------------------

Last Block

  K2:    3AE9CE72 662F2D9B

  Block #0
     inBlock =  BAE9CE72 662F2D9B
    outBlock =  7DB0D37D F936C550

----------------------------


Tag is
    7DB0D37D F936C550
```

```
==============================================================

Sample #2

Plaintext is
    6BC1BEE2 2E409F96 E93D7E11 7393172A
Tag length = 8

----------------------------

Full Blocks

  L    4EBA739C 998BCB60

  Block #1
     inBlock =  6BC1BEE2 2E409F96
    outBlock =  714772F3 39841D34

----------------------------

Last Block

  K1:    9D74E739 331796C0

  Block #2
     inBlock =  050EEBDB 79009CDE
    outBlock =  30239CF1 F52E6609

----------------------------


Tag is
    30239CF1 F52E6609

==============================================================

Sample #3

Plaintext is
    6BC1BEE2 2E409F96 E93D7E11 7393172A
    AE2D8A57
Tag length = 8

----------------------------
```

```
Full Blocks

  L    4EBA739C 998BCB60

  Block #1
     inBlock =  6BC1BEE2 2E409F96
    outBlock =  714772F3 39841D34

  Block #2
     inBlock =  987A0CE2 4A170A1E
    outBlock =  A6668756 9156F45A

----------------------------

Last Block

  K2:    3AE9CE72 662F2D9B

  Block #3
     inBlock =  32A2C373 7779D9C1
    outBlock =  6C9F3EE4 923F6BE2

----------------------------


Tag is
    6C9F3EE4 923F6BE2

==============================================================

Sample #4

Plaintext is
    6BC1BEE2 2E409F96 E93D7E11 7393172A
    AE2D8A57 1E03AC9C 9EB76FAC 45AF8E51
Tag length = 8

----------------------------

Full Blocks

  L    4EBA739C 998BCB60

  Block #1
     inBlock =  6BC1BEE2 2E409F96
    outBlock =  714772F3 39841D34
  Block #2
     inBlock =  987A0CE2 4A170A1E
    outBlock =  A6668756 9156F45A

  Block #3
     inBlock =  084B0D01 8F5558C6
    outBlock =  6D6A8D86 6556D349

----------------------------

Last Block

  K1:    9D74E739 331796C0

  Block #4
     inBlock =  6EA90513 13EECBD8
    outBlock =  99429BD0 BF7904E5

----------------------------


Tag is
    99429BD0 BF7904E5

==============================================================

##############################################################

  Block Cipher Modes of Operation

      CMAC Mode for Authentication (CMAC)

##############################################################

CMAC-TDES (Generation)
--------------------------------------------------------------

Key1 is
    01234567 89ABCDEF
Key2 is
    23456789 ABCDEF01
Key3 is
    01234567 89ABCDEF
==============================================================
Sample #1

Plaintext is
    <empty>
Tag length = 8

----------------------------

Full Blocks

  L    86E965BD 1EC44461

----------------------------

Last Block

  K2:    1BA596F4 7B1111B2

  Block #0
     inBlock =  9BA596F4 7B1111B2
    outBlock =  79CE52A7 F786A960

----------------------------


Tag is
    79CE52A7 F786A960

==============================================================

Sample #2

Plaintext is
    6BC1BEE2 2E409F96 E93D7E11 7393172A
Tag length = 8

----------------------------

Full Blocks

  L    86E965BD 1EC44461

  Block #1
     inBlock =  6BC1BEE2 2E409F96
    outBlock =  06EDE3D8 2884090A
```

```
----------------------------

Last Block

  K1:    0DD2CB7A 3D8888D9

  Block #2
     inBlock =  E20256B3 669F96F9
    outBlock =  CC18A0B7 9AF2413B

----------------------------


Tag is
    CC18A0B7 9AF2413B

==============================================================

Sample #3

Plaintext is
    6BC1BEE2 2E409F96 E93D7E11 7393172A
    AE2D8A57
Tag length = 8

----------------------------

Full Blocks

  L    86E965BD 1EC44461

  Block #1
     inBlock =  6BC1BEE2 2E409F96
    outBlock =  06EDE3D8 2884090A

  Block #2
     inBlock =  EFD09DC9 5B171E20
    outBlock =  3B7BBD1F C1AD476F

----------------------------

Last Block

  K2:    1BA596F4 7B1111B2

  Block #3
```

```
     inBlock =  8EF3A1BC 3ABC56DD
    outBlock =  C06D377E CD101969

----------------------------


Tag is
    C06D377E CD101969

==============================================================

Sample #4

Plaintext is
    6BC1BEE2 2E409F96 E93D7E11 7393172A
    AE2D8A57 1E03AC9C 9EB76FAC 45AF8E51
Tag length = 8

----------------------------

Full Blocks

  L    86E965BD 1EC44461

  Block #1
     inBlock =  6BC1BEE2 2E409F96
    outBlock =  06EDE3D8 2884090A

  Block #2
     inBlock =  EFD09DC9 5B171E20
    outBlock =  3B7BBD1F C1AD476F

  Block #3
     inBlock =  95563748 DFAEEBF3
    outBlock =  999E82F2 3BF0C275

----------------------------

Last Block

  K1:    0DD2CB7A 3D8888D9

  Block #4
     inBlock =  0AFB2624 43D7C4FD
    outBlock =  9CD33580 F9B64DFB
```

```
----------------------------


Tag is
    9CD33580 F9B64DFB

==============================================================
```