COMP3260 Assignment 2

By Kyle Dryden & Josh O'Brien

Encryption Output

First Set

Avalanche Demonstration

Plaintext P:

011000110110111101101101111000000110011001100100011011000110001 Key K:

P and P' under K

Ciphertext C DES0:

Ciphertext C DES1:

Ciphertext C DES2:

Ciphertext C DES3:

Round	DES0	DES1	DES2	DES3
0	1	1	1	1
1	6	5	2	6
2	24	13	3	9
3	35	23	3	7
4	29	26	4	10
5	32	28	5	19
6	33	32	5	20
7	32	30	4	25
8	32	34	5	36
9	27	35	7	37
10	29	31	8	35
11	33	25	7	32
12	29	29	5	32
13	28	39	4	37
14	31	33	3	35
15	32	32	3	28
16	32	32	3	28

Second Set

P under K and K $^{\prime}$

Ciphertext C DESO:

Ciphertext C DES1:

Ciphertext C DES2:

Ciphertext C DES3:

Round	DES0	DES1	DES2	DES3
0	2	0	0	2
1	13	0	1	12
2	25	0	3	22
3	28	0	5	26
4	31	0	7	30
5	29	0	10	37
6	31	0	15	40
7	38	0	17	35
8	41	0	18	32
9	36	0	21	35
10	29	0	24	40
11	31	0	25	42
12	32	0	24	40
13	35	0	25	40
14	39	0	32	34
15	37	0	29	27
16	37	0	29	27

Decryption Output

DECRYPTION

Ciphertext C:

Plaintext P DESO: