***Plain Text: 11101010***

Initial Permutation = 10110011

**Round function 1**

Generating Key1

E/P output = 10010110

Key = 01011111

P4 = 1010

**Round function 2**

Generating Key2

E/P output = 10000010

Key = 01111101

P4 = 0111

***Cipher Text = 00000110***

DECRYPT

***Cipher Text: 00000110***

Initial Permutation = 01000001

**Round function 1**

Generating Key2

E/P output = 10000010

Key = 01111101

P4 = 0111

**Round function 2**

Generating Key1

E/P output = 10010110

Key = 01011111

P4 = 1010

***Plain Text = 11101010***