**NMAM.I.T., NITTE**

**DEPARTMENT OF MCA**

**II SEM MCA**

**NETWORK ASSIGNMENTS : 6**

1. Implement hamming distance method for error correction. Input binary data and convert input data into code words in transmitted message. Display received message and display corrected message in case of error.

**\*\*\*\*\*\*\*\*\*\*\*\*SENDER\*\*\*\*\*\*\*\*\*\*\*\***

Enter Data : 1011001

**Out Put**

Code Word :0110

Transmission data T : 101**0**110**1**1**10**

Do You Want to Introduce error(Y/N) : Y

Enter the Position : 2 (condition : position between 1 to T size)

**\*\*\*\*\*\*\*\*\*\*\*\*RECEIVER\*\*\*\*\*\*\*\*\*\*\*\***

Message received at the Receiver : 101011011**0**0

Code Word :0010 Error in 2nd position

After Correction of Data : 101011011**1**0

1. Write a program to implement Leaky Bucket algorithm.

Enter the Size of the Bucket : 20

Enter the out rate : 5

Enter the time Interval : 5

Enter th number of Packet : 5

Enter the time and Size of Packet 1 : 2 6

Enter the time and Size of Packet 2 : 3 10

Enter the time and Size of Packet 3 : 14 4

Enter the time and Size of Packet 4 : 16 15

Enter the time and Size of Packet 5 : 21 10

**Operation Time Filled Free-Space**

Insert 2 6 14

Insert 3 16 4

Remove 5 11 9

Remove 10 6 14

Insert 14 10 10

Remove 15 5 15

Insert 16 20 0

Remove 20 15 5

Insert 21 overflow

Remove 25 10 10

Remove 30 5 15

Remove 35 0 20