```
Command Window
 Enter the number of symbols :2
 The number of symbols are N
 eneter probabability[0.8,0.2]
 The first Probability are :
     0.8000 0.2000
 The second Probability are :
   0.8000 0.2000
 Avg length of code
     1
 Entropy is
   0.7219
 bits/msg
 Efficiency is :
    72.1928
 Codeword are
     0 1
 decoded output is
   1 2
f_{\frac{x}{v}} >>
```

Command Window

fx >>

msg =

1 1 0 0 1 0

decoded =

1 1 0 0 1 0

Commano	d Windov	V					
Code_	_vecto	r =					
	0	0	0	0	0	0	0
	0	0	0	1	1	1	1
	0	0	1	0	1	0	1
	0	0	1	1	0	1	0
	0	1	0	0	0	1	1
	0	1	0	1	1	0	0
	0	1	1	0	1	1	0
	0	1	1	1	0	0	1
	1	0	0	0	1	1	0
	1	0	0	1	0	0	1
	1	0	1	0	0	1	1
	1	0	1	1	1	0	0
	1	1	0	0	1	0	1
	1	1	0	1	0	1	0
	1	1	1	0	0	0	0
	1	1	1	1	1	1	1
<u>x</u> >>							

```
Enter codeword length7
Enter No of msg bits4
Enter Generator Polynomial[1 1 0 1]
Message Bits
0000
0001
0010
0011
0100
0101
0110
0111
1000
1001
1010
1011
1100
1101
1110
1111
Generator Matrix
                  0 1 1 0
    1
         0 0
    0
         1
              0
                   0
                       0
                                   1
                              1
    0
         0
              1
                   0
                         1
                             1
                                   1
    0
         0
              0
                   1
                       1
                              0
                                   1
```

Command Window

CodeWords						
0	0	0	0	0	0	0
0	0	0	1	1	0	1
0	0	1	0	1	1	1
0	0	1	1	0	1	0
0	1	0	0	0	1	1
0	1.	0	1	1	1	0
0	1	1	0	1	0	0
0	1	1	1	0	0	1
1	0	0	0	1	1	0
1	0	0	1	0	1	1
1	0	1	0	0	0	1
1	0	1	1	1	0	0
1	1	0	0	1	0	1
1	1	0	1	0	0	0
1	1	1	0	0	1	0
1	1	1	1	1	1	1