

Exp10.m

```
1 clc;
2 clear all;
3 close all;
4 code_length=0;
5 x=input('Enter number of symbols: ');
6 for m=1:x
7     symbols(m)=input('Enter the symbol number: ');
8     p(m)=input('Enter the probability: ');
9 end
10 Hx=0
11 for m=1:x
12     [dict,avglen]=huffmandict(symbols,p)
13     hcode=huffmanenco(m,dict)
14     dsig = huffmandeco(hcode,dict)
15     code_length=length(hcode)
16     Hx=Hx+(p(m)*(-log(p(m)))/(log(2)));
17 end
18 display(Hx);
19 Efficiency=(Hx/avglen)*100
20 Disp(Efficiency);
```

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