

```
1 C:\Users\91903\Desktop\Shannons\cmake-build-debug\Shann
2 Enter number of symbols:
3 5
4 Enter symbol 1 :A
5 Enter symbol 2 :B
6 Enter symbol 3 :C
7 Enter symbol 4 :E
8 Enter symbol 5 :F
9
10 Enter probability of A :0.22
11
12 Enter probability of B :0.28
13
14 Enter probability of C :0.15
15
16 Enter probability of E :0.30
17
18 Enter probability of F :0.05
19 A 1
20 B 1
21 C 1
22 E 0
23 F 0
24 A 1
25 B 1
26 C 0
27 B 0
28 A 1
29 C 0
30 F 0
31 E 1
32 Entropy = 1.48508bits/symbol
33 Length = 2.42bits/symbol
34 Efficiency = 61.3671
35
36      Symbol   Probability   Code
37      F         0.3         00
38      E         0.28        01
39      C         0.22        100
40      B         0.15        110
41      A         0.05        111
```

42 Process finished with exit code 0

43