In [13]:

```python
#Text to Brail on python
import time
start = time.time()
translate = input('Text you would like to translate (written as a string): ');
import numpy as np
list2 =[[],[],[]];
list1 = list(translate)
characters = len(translate);

# Lowercase Letters
a = [['10'],['00'],['00']];
b = [['10'],['10'],['00']];
c = [['11'],['00'],['00']];
d = [['11'],['01'],['00']];
e = [['10'],['01'],['00']];
f = [['11'],['10'],['00']];
g = [['11'],['11'],['00']];
h = [['10'],['11'],['00']];
i = [['01'],['10'],['00']];
j = [['01'],['11'],['00']];
k = [['10'],['00'],['10']];
l = [['10'],['10'],['10']];
m = [['11'],['00'],['10']];
n = [['11'],['01'],['10']];
o = [['10'],['01'],['10']];
p = [['11'],['10'],['10']];
q = [['11'],['11'],['10']];
r = [['10'],['11'],['10']];
s = [['01'],['10'],['10']];
t = [['01'],['11'],['10']];
u = [['10'],['00'],['11']];
v = [['10'],['10'],['11']];
w = [['01'],['11'],['01']];
x = [['11'],['00'],['11']];
y = [['11'],['01'],['11']];
z = [['10'],['01'],['11']];
# Punctuation
capital      = [['00'],['00'],['01']];
question     = [['00'],['10'],['11']];
exclamation  = [['00'],['11'],['10']];
underscore   = [['00'],['00'],['11']];
period       = [['00'],['11'],['01']];
comma        = [['00'],['11'],['01']];
colon        = [['00'],['11'],['00']];
space        = [['  '],['  '],['  ']];

# Numbers
number  = [['01'],['01'],['11']];
zero    = [['01'],['11'],['00']];
one     = [['10'],['00'],['00']];
two     = [['10'],['10'],['00']];
three   = [['11'],['00'],['00']];
four    = [['11'],['01'],['00']];
five    = [['10'],['01'],['00']];
six     = [['11'],['10'],['00']];
seven   = [['11'],['11'],['00']];
eight   = [['10'],['11'],['00']];
nine    = [['01'],['10'],['00']];

counter=0
while counter in range(len(list1)):
    #Small Letters
```

In [ ]:   1