

### Problem 1

In class, we defined a hash function which associates each letter to its position in the alphabet and sums the letters of a word.

a  $\rightarrow$  1

b  $\rightarrow$  2

...

y  $\rightarrow$  25

z  $\rightarrow$  26

Using this hash function, draw what the hash table looks like in the example below after each operation.

table = empty hash table of size 6

table["Olivier"] = 450-111-1111

table["Sakshi"] = 514-222-2222

table["Johnny"] = 438-333-3333

Sol:

0	1	2	3	4	5
"Olivier" 450-111-1111	"Sakshi" 514-222-2222	"Johnny" 438-333-3333			