**HashTable**

**hashing algorithms: is a calculation of key to transfer into an address (index number).**

Index number = sum ASCII codes Mod size of array

Ex:

0 1 2 3 4 5 6 7 8 9 10

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Mia |  |  |  |  |  |  |

Mia M 77 I 105 a 97

Index number = (77 + 105 + 97) / 11

Index number = 279 / 11

Index number = 25.36 around to 4

Index number = 4

**There is tow technique:**

1. Linear probing

Table

Description automatically generated with medium confidence

1. Chaining

Chart, box and whisker chart

Description automatically generated