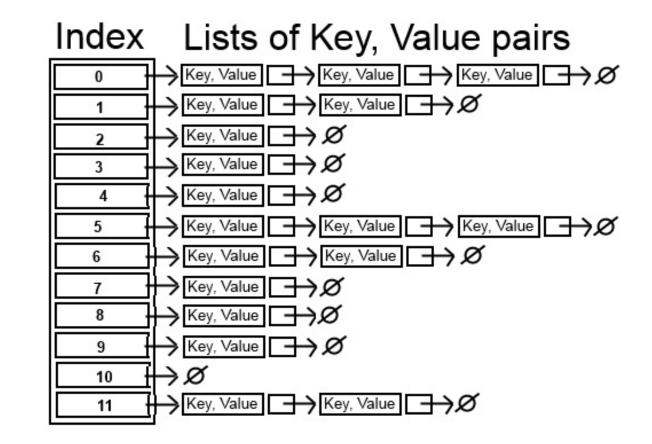
## Hashtable

- Hashtable collection contains a group of elements of key/value pairs stored at respective indexes.
- Full Path: UniversitySystem.Collections.Hashtable
- > Process of adding an element:
  - I. Generate index based on the key. Ex: index = hash code % size of hashtable
  - 2. Add the element (key and value) next to the linked list at the generated index.



'Hashtable' collection

**Hashtable** referenceVariable = new Hashtable();



- > It is dynamically sized. You can add, remove elements (key/value pairs) at any time.
- > Key can't be null or duplicate; but value can be null or duplicate.
- > The "Hashtable" class is not a generic class.
- You can set / get the value based on the key.
- > It is not index-based. You need to access elements by using key.

Properties

Count: Returns count of elements.

Returns value based on specified key.

Keys: Returns a collection of key (without values).

Values: Returns a collection of values (without keys).

void Add(object key, object value)
 void Remove(object key)
 bool ContainsKey(object key)
 Determines whether the specified key exists.
 bool ContainsValue(object value)
 Determines whether the specified value exists.
 void Clear()
 Removes all elements.