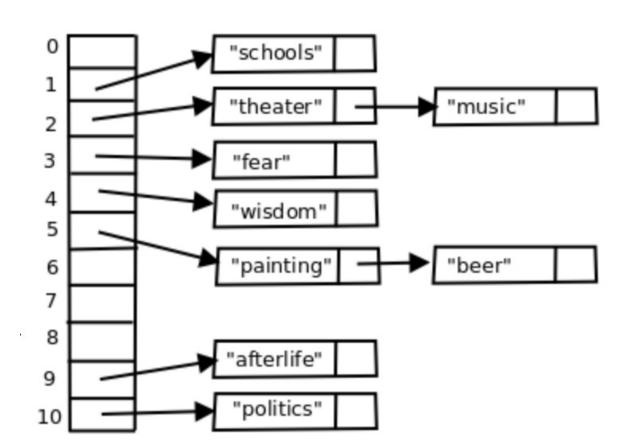
# Hashset

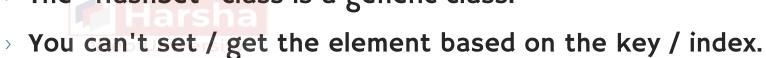
- HashSet collection contains a group of elements of unique values stored at respective indexes.
- > Full Path: System.Collections.Generic.HashSet
- > Process of adding an element:
  - > Generate index based on the value. Ex: index = hash code % count
  - > Add the element (value) next to the linked list at the generated index.



## 'HashSet' collection

HashSet<T> referenceVariable = new HashSet<T>();





- > It searches elements based on the index generated based on the search value.
- > HashSet allows only one null value; Hashtable allows only one null key; but allows multiple null values.
- > You can't access elements based on key / index. You can use Contains method to search for an element.
- You can't sort elements in HashSet.
- > Elements must be unique; duplicate elements are not allowed.



Properties : Returns count of elements.

void Add(T value)
void Remove(T value)
Removes an element based on specified key.
void RemoveWhere(Predicate)
Remove elements that matches with condition.
bool Contains (T value)
Determines whether the specified value exists.
void Clear()
Removes all elements.
void UnionWith(IEnumerable<T>)
Unions the hashset and specified collection.
void IntersectWith(IEnumerable<T>)
Intersects the hashset and specified collection.