## **ASSIGNMENT**

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## Java Vector

Vector is like the dynamic array which can grow or shrink its size Unlike array. We can store n- number of elements in it has there is no size limit. This is a collection of different data types.

It is found in *java.util* package and implements the list interface, so we can use all the methods of list interface here.

Vector List= new Vector();

## **Vector Class Methods**

- add() Inserts the specified element at the specified position in this Vector.
- addAll() Appends all of the elements in the specified
   Collection to the end of this Vector
- addElement() Adds the specified component to the end of this vector, increasing its size by one
- capacity() used to get the current capacity of this vector.
- clear() Removes all of the elements from this Vector.

- clone() Returns a clone of this vector. The copy will contain a reference to a clone of the internal data array of this Vector object.
- contains() Returns true if this vector contains the specified element
- containsAll() Returns true if this Vector contains all of the elements in the specified Collection
- elementAt() Returns the component at the specified index.
- firstElement() Returns the first component (the item at index 0) of this vector
- get() Returns the element at the specified position in this Vector.
- isEmtpty Tests if this vector has no components
- iterator() Returns an iterator over the elements in this list in proper sequence.
- remove() Removes the element at the specified position in this Vector.
- removeAll() Removes from this Vector all of its elements that are contained in the specified Collection.
- set() Replaces the element at the specified position in this Vector with the specified element

```
import java.util.Vector;
public class VectorSample {
public static void main(String ar[]) {
             Vector list =new Vector(5);
             list.addElement(10);
             list.addElement(11);
             list.addElement(12);
             list.addElement(13);
             list.addElement(14);
             System.out.println(list);
             System.out.println(list.capacity());
             System.out.println(list.get(1));
             list.remove(1);
             System.out.println(list);
             list.removeAllElements();
             System.out.println(list.isEmpty());
             }
}
```

```
Out put
```

5

true