Example 1

**package** hello;

**import** java.util.\*;

**public** **class** Vectorexample1 {

**public** **static** **void** main(String args[]) {

//Create a vector

Vector<String> vec = **new** Vector<String>();

//Adding elements using add() method of List

vec.addElement("Tiger");

vec.addElement("Lion");

vec.addElement("Dog");

vec.addElement("Elephant");

//Adding elements using addElement() method of Vector

vec.addElement("Rat");

vec.addElement("Cat");

vec.addElement("Deer");

System.***out***.println("Elements are: "+vec);

}

}

**Output:**

Elements are: [Tiger, Lion, Dog, Elephant, Rat, Cat, Deer]

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**Example 2**

**package** hello;

**import** java.util.\*;

**public** **class** Vectorexample2 {

**public** **static** **void** main(String args[]) {

//Create an empty vector with initial capacity 4

Vector<String> vec = **new** Vector<String>(6);

//Adding elements to a vector

vec.add("Tiger");

vec.add("Lion");

vec.add("Dog");

vec.add("Elephant");

//Check size and capacity

System.***out***.println("Size is: "+vec.size());

System.***out***.println("Default capacity is: "+vec.capacity());

//Display Vector elements

System.***out***.println("Vector element is: "+vec);

vec.addElement("Rat");

vec.addElement("Cat");

vec.addElement("Deer");

//Again check size and capacity after two insertions

System.***out***.println("Size after addition: "+vec.size());

System.***out***.println("Capacity after addition is: "+vec.capacity());

//Display Vector elements again

System.***out***.println("Elements are: "+vec); // [tiger,lion,dog,elephant,rat,cat,deer]

//Checking if Tiger is present or not in this vector

**if**(vec.contains("Tiger"))

{

System.***out***.println("Tiger is present at the index " +vec.indexOf("Tiger"));

}

**else**

{

System.***out***.println("Tiger is not present in the list.");

}

//Get the first element

System.***out***.println("The first animal of the vector is = "+vec.firstElement());

//Get the last element

System.***out***.println("The last animal of the vector is = "+vec.lastElement());

}

}

**Output:**

Size is: 4

Default capacity is: 6

Vector element is: [Tiger, Lion, Dog, Elephant]

Size after addition: 7

Capacity after addition is: 12

Elements are: [Tiger, Lion, Dog, Elephant, Rat, Cat, Deer]

Tiger is present at the index 0

The first animal of the vector is = Tiger

The last animal of the vector is = Deer

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Example 3

**package** hello;

**import** java.util.\*;

**public** **class** Vectorexample4 {

**public** **static** **void** main(String args[]) {

//Create an empty Vector

Vector<Integer> in = **new** Vector<>();

//Add elements in the vector

in.add(100);

in.add(200);

in.add(300);

in.add(200);

in.add(400);

in.add(500);

in.add(600);

in.add(700);

//Display the vector elements

System.***out***.println("Values in vector: " +in);

System.***out***.println("Remove first occourence of element 200: "+in.remove((Integer)200));

System.***out***.println("Values in vector: " +in);

System.***out***.println("Remove element at index 4: " +in.remove(4));

System.***out***.println("New Value list in vector: " +in);

in.removeElementAt(5);

//System.out.println("Remove element at index 5: " +in.remove(5));

System.***out***.println("Vector element after removal: " +in);

System.***out***.println("Hash code of this vector = "+in.hashCode());

System.***out***.println("Element at index 1 is = "+in.get(1));

}

}

**Output:**

Values in vector: [100, 200, 300, 200, 400, 500, 600, 700]

Remove first occourence of element 200: true

Values in vector: [100, 300, 200, 400, 500, 600, 700]

Remove element at index 4: 500

New Value list in vector: [100, 300, 200, 400, 600, 700]

Vector element after removal: [100, 300, 200, 400, 600]

Hash code of this vector = 130123751

Element at index 1 is = 300

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