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| A picture containing drawing, stop, room  Description automatically generated | Core Java  Practical #7 | | |
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| **Name** | Kavish Sakthivel | **Roll Number** | 21302A0021 |
| **Subject/Course:** | Core Java | | |
| **Topic** | Arrays and Vector | | |
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| **Array** | | | |
| Write a Java program to move all 0's to the end of an array. Maintain the relative order of the other (non-zero) array elements. | | | |
| package prac\_08;    import java.util.Scanner;    public class Prac\_08 {      public static void main(String[] args) {  int size;  Scanner sc = new Scanner(System.in);  System.out.println("Enter the SIze of the Array : ");  size=sc.nextInt();    int[] arr=new int[size];  System.out.println("Enter " + size + " numbers : ");    for(int i=0;i<size;i++){  arr[i]=sc.nextInt();  }    for(int n:arr){  System.out.print(n+"\t");  }    int count=0;  for(int i=0;i<size;i++){  if(arr[i]==0){  count++;  }  }    for(int i=0;i<size;i++){  if(arr[i]==0){  for(int j=i;j<size-1;j++){  arr[j]=arr[j+1];  }  }  }    for(int i=size-count;i<size;i++){  arr[i]=0;  }    System.out.println("Array with 0 at end");    for(int y:arr){  System.out.print(y + "\t");  }    }        }  O/P: | | | |
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| **Vector** | | | |
| Write a program to create vector of initial size 7 and size number of integers in it.  Perform following operations on the vector   1. Display all elements of vector 2. Display capacity and size of the array 3. Display element at 5th index 4. Remove element at 3rd index 5. Add element at 2nd index 6. Append element at the end 7. Get the first and last element | | | |
| package prac\_08;    import java.util.Vector;    public class vector {    public static void main(String[] args) {  Vector v=new Vector(7);    System.out.println("Capacity of the Vector : "+v.capacity());  v.add(55);  v.add(22);  v.add(69);  v.add("bruce");  v.add("ace");  v.add(26);    System.out.println("Size of the Vector : "+v.size());  System.out.println("Element at 5th index : "+v.elementAt(5));  System.out.println("Removed element : "+v.remove(3));  v.add(2, "jod");  v.addElement("blaze");    System.out.println("First element : " + v.firstElement());  System.out.println("Last Element : " + v.lastElement());    System.out.println(v);  }    }  O/P: | | | |