# Practical No:09

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**Objective:** WAP to perform bubble sort over elements in the array.

# Code :

import java.util.Scanner;

public class \_03\_BubbleSort {

static void bubbleSort(int arr[]) {

int n = arr.length;

for (int i = 0; i < n - 1; i++)

for (int j = 0; j < n - i - 1; j++)

if (arr[j] > arr[j + 1]) {

int temp = arr[j];

arr[j] = arr[j + 1];

arr[j + 1] = temp;

}

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n;

System.out.print("Enter the number of array: ");

n = sc.nextInt();

int arr[];

arr = new int[n];

for (int i = 0; i < arr.length; i++) {

System.out.print("Enter the arr[" + (i) + "]: ");

arr[i] = sc.nextInt();

}

System.out.println("\nArray before sorting: ");

for (int i : arr) {

System.out.print(i+ "\t");

}

bubbleSort(arr);

System.out.println("\nArray after sorting: ");

for (int i : arr) {

System.out.print(i + "\t");

}

sc.close();

}

}

# Output:

PS E:\03 Semester\Java\Assignments\Assignment\_02\_oct21> cd "e:\03 Semester\Java\Assignments\Assignment\_02\_oct21\" ; if ($?) { javac \_03\_BubbleSort.java } ; if ($?) { java \_03\_BubbleSort }

Enter the number of array: 5

Enter the arr[0]: 34

Enter the arr[1]: 23

Enter the arr[2]: 4

Enter the arr[3]: 2

Enter the arr[4]: 14

Array before sorting:

34 23 4 2 14

Array after sorting:

2 4 14 23 34