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ASSIGNMENT NO : 3

CODE :

```
import java.util.Scanner;


public class buuble_sort {


   int arr[];
int size;
   buuble_sort1(int a)
   {
      size=a;       arr=
new int[size];
   }


   public void swap(int i,int j)
   {
      int temp;
temp=arr[i];
```

```
arr[i]=arr[j];
arr[j]=temp;    }

  public void input(int size)
  {
     Scanner s = new Scanner(System.in);
     System.out.println(" ENTER  THE  ELEMENTS  OF THE ARRAY \n ");
     for(int i=0;i<size;i++)
     {

        arr[i]=s.nextInt();
     }
  }

  public void sort(int size)
  {
     for(int i=0;i<size;i++)
     {
        for(int j=0;j<size-1;j++)
        {
           if(arr[j]>arr[j+1])
           {
           swap(j,j+1);
           }
        }
     }
  }

  public void output(int size)
```

```
  {
     for(int i=0;i<size;i++)
     {
        System.out.print(arr[i]+"    ");
     }
     System.out.println("\n");
  }

  public static void main(String [] args)
  {
int a;
     Scanner sc = new Scanner(System.in);



     System.out.println(" ENTER THE SIZE  OF  THE  ARRAY \n");
     a=sc.nextInt();
     buuble_sort1  ob1 = new buuble_sort1(a);

     ob1.input(a);
     System.out.println("ARRAY BEFORE SORT : \n");
     ob1.output(a);

     ob1.sort(a);
     System.out.println("ARRAY AFTER SORT : \n");
     ob1.output(a);



  }
```

```
}
```

OUTPUT :

```
 ENTER THE SIZE  OF  THE  ARRAY
8
7
6
5
4
3
2
1
15
ARRAY BEFORE SORT :

9     8     7     6     5     4     3     2     1     15

ARRAY AFTER SORT :

1     2     3     4     5     6     7     8     9     15
```