

NAME:- PRADEEP LAHU RATHOD

ROLL NO:- 49

BUBBLE SORT

CODE :

```
public class BubbleSort{

    static void bubbleSort(int[] arr) {

        int n = arr.length;

        int temp = 0;

        for(int i=0; i < n; i++){

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

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

                    //swap elements

                    temp = arr[j-1];

                    arr[j-1] = arr[j];

                    arr[j] = temp;

                }

            }

        }

    }

    public static void main(String[] args) {

        int arr[] = {3,60,35,2,45,320,5};
```

```
System.out.println("Array Before Bubble Sort");

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

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

}

System.out.println();


bubbleSort(arr);//sorting array elements using bubble sort


System.out.println("Array After Bubble Sort");

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

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

}

}

}
```

OUTPUT :

```
C:\Users\yedu0\OneDrive\Documents\java>javac bubblesort.java

C:\Users\yedu0\OneDrive\Documents\java>java bubblesort.java
Array Before Bubble Sort
3 60 35 2 45 320 5
Array After Bubble Sort
2 3 5 35 45 60 320
```