Exp 11 – Insertion Sort

```
public class InsertionSort {
    void sort(int arr[])
        int n = arr.length;
        for (int i = 1; i < n; ++i) {
            int key = arr[i];
            int j = i - 1;
            /* Move elements that are greater than key, to one position ahead
of their current position */
            while (j \ge 0 \&\& arr[j] > key) {
                arr[j + 1] = arr[j];
                j = j - 1;
            arr[j + 1] = key;
        }
    }
    static void printArray(int arr[])
        int n = arr.length;
        for (int i = 0; i < n; ++i)
            System.out.print(arr[i] + " ");
        System.out.println();
    }
    public static void main(String args[])
    {
        int arr[] = { 12, 11, 13, 5, 6 };
        InsertionSort ob = new InsertionSort();
        ob.sort(arr);
        printArray(arr);
```

Output-

5 6 11 12 13