Executing the program to verify the execution of the bubble sort algorithm

Program:

class InsertionSort {

/\*Function to sort array using insertion sort\*/

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 of arr[0..i-1], that are

greater than key, to one position ahead

of their current position \*/

while (j >= 0 && arr[j] > key) {

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

j = j - 1;

}

arr[j + 1] = key;

}

}

/\* A utility function to print array of size n\*/

static void printArray(int arr[])

{

int n = arr.length;

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

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

System.out.println();

}

// Driver method

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