1. **Write the function for insertion sort.**

   Algorithm :-

   Step 1 – If it is the first element, it is already sorted. return 1;
   Step 2 – Pick next element
   Step 3 – Compare with all elements in the sorted sub-list

   Step 4 – Shift all the elements in the sorted sub-list that is greater than the value to be sorted.

   Step 5 – Insert the value

   Step 6 – Repeat until list is sorted

   Function :-

```
void insertionSort(int array[], int n)
{
   int i, element, j;
   for (i = 1; i < n; i++) {
     element = array[i]; j = i - 1;
   while (j >= 0 && array[j] > element) {
        array[j + 1] = array[j];
        j = j - 1;
     }
     array[j + 1] = element;
   }
}
```