Experiment No. 1

To implement Insertion Sort and Comparative analysis for large values of 'n'

```
#include <math.h>
#include <stdio.h>
void insertionSort(int arr[], int n)
{
         int i, key, j;
        for (i = 1; i < n; i++) {
                 key = arr[i];
                 j = i - 1;
                 while (j \ge 0 \&\& arr[j] > key) {
                           arr[j + 1] = arr[j];
                          j = j - 1;
                 }
                  arr[j + 1] = key;
        }
}
{
         int i;
        for (i = 0; i < n; i++)
                 printf("%d ", arr[i]);
         printf("\n");
}
int main()
```

```
{
    int arr[] = { 12, 11, 13, 5, 6 };
    int n = sizeof(arr) / sizeof(arr[0]);
    insertionSort(arr, n);
    printArray(arr, n);
    return 0;
}
```

5,6,11,12,13