```
#include <iostream>
using namespace std;
int quicksort(int array[], int low, int high)
{
      if (low >= high)
            return 0;
      int mid = (low + high)/2;
      int pivot = array[mid];
      int i = low;
      int j = high;
      int temp;
      while (i \le j)
            while (pivot > array[i])
                   i++;
            while (pivot < array[j])</pre>
                   j--;
            if (i <= j)
                   temp = array[i];
                   array[i] = array[j];
                   array[j] = temp;
                   i++;
                   j--;
            }
      }
      // Calling QuickSort for the first Sub list
      if (low < j)</pre>
            quicksort(array, low, j);
      // Calling QuickSort for the second Sub list
      if (i < high)</pre>
            quicksort(array, i, high);
}
// main function
int main()
{
      int array[] = \{9,3,7,5,6,4,8,2\};
      int n;
      n = sizeof(array)/sizeof(array[0]);
      cout<<"Array element before Sorting : \n";</pre>
      for (int i = 0; i < n; i++)
            cout<<array[i]<<"\t";</pre>
      if (n == 0)
      {
            cout<<"\nThere is nothing to Sort";</pre>
            return 0;
      else if (n == 1)
      {
            cout<<"\nSingle Element is already Sorted ";</pre>
      else
      {
            // Call to Quick Sort
            quicksort(array, 0, n);
```