QUICK SORT

```
#include<stdio.h>
int quicksort(int arr[],int low,int high){
        int temp;
        int pivot=arr[low];
        int i=low;
        int j=high;
        if(low<high){
                while(i<j){
                        while(arr[i]<=pivot&&i<high)i++;
                        while(arr[j]>pivot)j--;
                        if(i<j){
                                temp = arr[i];
                arr[i] = arr[j];
                arr[j] = temp;
                        }
                }
                temp=pivot;
                pivot=arr[j];
                arr[j]=temp;
                quicksort(arr,low,j - 1);
      quicksort(arr,j + 1,high);
        }
}
int main() {
   int arr[50],n,i;
   printf("Enter number of elements: ");
   scanf("%d",&n);
   printf("Enter %d elements:\n", n);
   for (i=0;i<n;i++)
      scanf("%d",&arr[i]);
   quicksort(arr,0,n-1);
   printf("Sorted array:\n");
   for (i=0;i<n;i++)
      printf("%d ",arr[i]);
   return 0;
}
```

OUTPUT:

```
Enter number of elements: 5
Enter 5 elements:
2
3
5
6
8
Sorted array:
2 3 5 6 8
--------------------------------
Process exited after 12.82 seconds with return value 0
Press any key to continue . . .
```