**Assignment No :- 2.5**

**Title: Implementation of program for quick short**

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#include<iostream.h>

#include<conio.h>

void QUICK\_SORT(int \*arr,int low,int high)

{

int pivot,i,j,temp;

if(low<high)

{

pivot=arr[low];

i=low+1;

j=high;

while(i<j)

{

while(arr[i]<pivot && i<=high)

i++;

while(arr[j]>pivot && j>=low)

j--;

if(i<j)

{

temp=arr[i];

arr[i]=arr[j];

arr[j]=temp;

}

}

arr[low]= arr[j];

arr[j]=pivot;

QUICK\_SORT(arr,low,j-1);

QUICK\_SORT(arr,j+1,high);

}

}

void main()

{

clrscr();

int n,arr[10];

cout<<"Enter size of an array"<<endl;

cin>>n;

cout<<"\*\*\*\*Enter elements in an array\*\*\*\*"<<endl;

for(int i=1;i<=n;i++)

{

cin>>arr[i];

}

QUICK\_SORT(arr,1,n);

cout<<"Array after sort"<<endl;

for(i=1;i<=n;i++)

{

cout<<arr[i]<<" ";

}

getch();

}