quicksort\_07.cpp

**Compile:** g++ quicksort\_07.cpp -o quicksort\_07

**Run:** ./quicksort\_07

**Program:**

#include<iostream>

using namespace std;

int a[10],n,z=0;

classqs

{

public:

void get();

voidsrt(int [],int,int);

void display();

};

voidqs::get()

{

cout<<"Ener 10 values in unsorted order : \n";

for (n=0;n<10;n++)

{

cout<<"value no.: "<<(n+1)<<"\t";

cin>>a[n];

}

}

voidqs::srt(int k[10],intlb,intub)

{

inti,j,key,flag=0,temp;

if (lb<ub)

{

i=lb;

j=ub;

key=k[i];

while(flag!=1)

i++;

while(k[i]<key)

{

i++;

}

while(k[j]>key)

{

j--;

}

if (i<j)

{

temp=k[i];

k[i]=k[j];

k[j]=temp;

}

else

flag=1;

temp=k[lb];

k[lb]=k[j];

k[j]=temp;

}

}

srt(k,lb,j-1);

srt(k,j+1,ub);

}}

voidqs::display()

{

cout<<"\*\*\*\*\*\*\*\*\*\*\*The Sorted order is : \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

for (n=0;n<10;n++)

{

cout<<"position : "<<(n+1)<<"\t"<<a[n]<<"\n";

}

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*Done Sorting\*\*\*\*\*\*\*\*\*\*\*\*";

}

int main()

{

qsob;

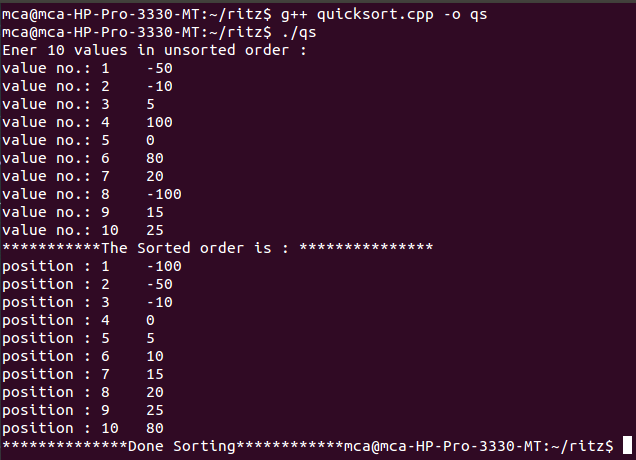
ob.get();

ob.srt(a,z,n);

ob.display();

}

**Output:**

****