**ROLL NO:-45**

**NAME : Harshit Atul Chilvirwar**

**PRACTICAL NO:-**

**PRACTICAL NAME :- IMPLEMENTATION OF QUEUE UISNG INSERTION SORT**

#include "iostream.h"

#include "conio.h"

#include "stdlib.h"

class LIST

{

int \*A,size; // 2 sep arry

public:

LIST(int);

void READ\_ELE();

void INS\_SORT();

void LIST\_ALL();

};

LIST::LIST(int par)

{

size = par;

A = new int[size+1];

}

void LIST::READ\_ELE()

{

cout<<endl<<"Enter list elements : ";

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

//cin>>A[i];

A[i]=random(1000);

}

void LIST::INS\_SORT()

{

for(int i=2;i<=size ;i++)

{

int ele = A[i];

int j= i-1;

while( j>=1 && ele>A[j] )

{

A[j+1]=A[j];

j=j-1;

}

A[j+1]=ele;

}

}

void LIST::LIST\_ALL()

{

cout<<endl<<"List elements are : \n";

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

cout<<A[i]<<" ";

}

void main()

{

int n;

clrscr();

cout<<endl<<"Enter size of arry : ";

cin>>n;

LIST obj(n);

obj.READ\_ELE();

cout<<endl<<"Elements before sorting";

obj. LIST\_ALL();

obj.INS\_SORT();

cout<<endl<<"Elements after sorting";

obj.LIST\_ALL();

getch();

}