#include<iostream> //header files

using namespace std;

class queue //class queue

{

private: //data member

int q[10]; //variables

int s,e; //Insertion/enqueue from the rear(back) and deletion/ dequeue from the front

public: //member functions

queue() //constrater to set the position of curser

{

s=-1; // front,start

e=-1; // rear ,back,end

}

/////////////////////////////////////////////////

bool is\_full() //bool operater to cheack status

{

if(e==10) //rear part,end part,insertion part , enqueue part

return true;

else

return false;

}

/////////////////////////////////////////////////

bool is\_empty()

{

if(e==-1)

return true;

else

return false;

}

//////////////////////////////////////////////////

void enqueue(float y) //for insertion , back, rear ,enqueue,end

{

if(is\_full())

{

cout<<"The queue is full"<<endl;

}

else

q[++e]=y;

cout<<"The value "<<y<<" is entered in the queue"<<endl;

}

/////////////////////////////////////////////////////////

int dequeue() //for delation,dequeue,front,start

{

if(is\_empty())

{

cout<<"The queue is empty"<<endl;

}

else

{

/\*int z;

z=q[e--]; //both possible for return

return z;\*/

return q[e--];

}

/////////////////////////////////////////////////

/\*for(int i=0;i<e;i++)

{

q[i]=q[i+1];

cout<<"cheak"<<q[i];

}\*/

}

///////////////////////////////////////////////////

void display()

{

for(int j=0;j<=e;j++)

cout<<q[j]<<"\t";

}

};

/////////////////////////////////////

int main()

{

queue c; //obect of class queue is c

//int d;

cout<<"\nEnqeues values are\n"<<endl;

c.enqueue(10.5);

c.enqueue(20);

c.enqueue(30);

c.enqueue(40.6);

c.enqueue(50);

c.enqueue(60);

c.enqueue(70.7);

c.enqueue(80);

c.enqueue(90);

cout<<"\nDeqeues values are\n"<<endl;

cout<<c.dequeue(); //90

cout<<"\n";

cout<<c.dequeue(); //80

cout<<"\n";

cout<<c.dequeue(); //70.7

cout<<"\nDispaly values are\n"<<endl;

c.display(); //10.5,20,30,40.6,50,60

cout<<"\nAgain dequeues values are\n"<<endl;

cout<<c.dequeue();cout<<"\n";

cout<<c.dequeue();cout<<"\n";

cout<<c.dequeue();cout<<"\n";

cout<<c.dequeue();cout<<"\n";

cout<<c.dequeue();cout<<"\n";

cout<<c.dequeue();cout<<"\n";

cout<<"Show address because queue is empty\n";

cout<<c.dequeue();cout<<"\n";

cout<<c.dequeue();cout<<"\n";

cout<<c.dequeue();cout<<"\n";

cout<<c.dequeue();cout<<"\n";

cout<<"\n";

cout<<"\nAgain enqueues 3 values and display them \n"<<endl;

c.enqueue(100);

c.enqueue(101);

c.enqueue(102);

c.display();

getchar();

getchar();

return 0;

}