***Queue Program***

#include<iostream>

using namespace std;

int front = -1;

int rear = -1;

int A[5];

bool isempty(){

if(front == -1 && rear == -1)

true;

else

false;

}

void enqueue(int value){

if(rear == 5-1)

cout<<"Queue is Full:\n";

else

if(front == -1){

front = 0;

rear++;

A[rear] = value;

}

}

void dequeue(){

if(isempty())

cout<<"Queue is Full:\n";

else if(front == rear) //it mean it is only one element in Queue

front = rear = -1;

else

front++;

}

void showFront()

{

if(isempty())

cout<<"Queue is Full:\n";

else

cout<<"Element at front is:"<<A[front];

}

void displayQueue(){

if(isempty())

cout<<"Queue is Full \n";

for(int i = front; i <= rear; i++){

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

}

}

int main(){

enqueue(2);

enqueue(8);

enqueue(3);

enqueue(9);

displayQueue();

showFront();

}