QUEUE OPERATIONS

ENQUEUE , DEQUEUE,DISPLAY

#include <stdio.h>

#include<stdlib.h>

#define MAX 50

void insert();

void delete();

void display();

int queue\_array[MAX];

int rear = - 1;

int front = - 1;

int main()

{

int choice;

while (1)

{

printf("1.Insert element to queue n");

printf("2.Delete element from queue n");

printf("3.Display all elements of queue n");

printf("4.Quit n");

printf("Enter your choice : ");

scanf("%d", &choice);

switch(choice)

{

case 1:

insert();

break;

case 2:

delete();

break;

case 3:

display();

break;

case 4:

exit(1);

default:

printf("Wrong choice n");

}

}

}

void insert()

{

int item;

if(rear == MAX - 1)

printf("Queue Overflow n");

else

{

if(front== - 1)

front = 0;

printf("Inset the element in queue : ");

scanf("%d", &item);

rear = rear + 1;

queue\_array[rear] = item;

}

}

void delete()

{

if(front == - 1 || front > rear)

{

printf("Queue Underflow n");

return;

}

else

{

printf("Element deleted from queue is : %dn", queue\_array[front]);

front = front + 1;

}

}

void display()

{

int i;

if(front == - 1)

printf("Queue is empty n");

else

{

printf("Queue is : n");

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

printf("%d ", queue\_array[i]);

printf("n");

}

}

OUTPUT

1.Insert element to queue

2.Delete element from queue

3.Display all elements of queue

4.Quit

Enter your choice : 1

Inset the element in queue : 33

1.Insert element to queue

2.Delete element from queue

3.Display all elements of queue

4.Quit

Enter your choice : 1

Inset the element in queue : 44

1.Insert element to queue

2.Delete element from queue

3.Display all elements of queue

4.Quit

Enter your choice : 1

Inset the element in queue : 66

1.Insert element to queue

2.Delete element from queue

3.Display all elements of queue

4.Quit

Enter your choice : 2

Element deleted from queue is : 33

1.Insert element to queue

2.Delete element from queue

3.Display all elements of queue

4.Quit

Enter your choice : 3

Queue is :

44 66

1.Insert element to queue

2.Delete element from queue

3.Display all elements of queue

4.Quit

Enter your choice :