QUEUE USSING ARRAY

#include<stdio.h>

#include<conio.h>

#define MAX 3

int queue[MAX],front=-1,rear=-1;

int insert();

int delete();

int display();

int main()

{

int ch;

do

{

printf("\n\*\*\*\*\*MAIN MENU\*\*\*\*\*\n");

printf("1.INSERT\n");

printf("2.DELETE\n");

printf("3.DISPLAY\n");

printf("4.EXIT\n");

printf("Enter your option:");

scanf("%d",&ch);

switch(ch)

{

case 1:insert();

break;

case 2:delete();

break;

case 3:display();

break;

}

}

while(ch!=4);

return 0;

}

int insert()

{

int num;

if(rear==MAX-1)

printf("OVERFLOW\n");

else

{

printf("Enter the element to insert:");

scanf("%d",&num);

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

{

front=0;

rear=0;

}

else

{

rear=rear+1;

}

queue[rear]=num;

}

return 0;

}

int delete()

{

int val;

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

printf("UNDERFLOW\n");

else

{

val=queue[front];

front=front+1;

printf("deleted element is %d",val);

}

return 0;

}

int display()

{

int i;

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

printf("QUEUE IS EMPTY\n");

else

{

printf("\*\*\*QUEUE\*\*\*\n");

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

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

}

return 0;

}