/\*queue insert delete display\*/

#include<stdio.h>

#include<stdlib.h>

#include<process.h>

#define MAX 10

int front=-1;

int rear=-1;

int queue[MAX];

void insert\_queue();

void delete\_queue();

void display\_queue();

int main()

{

int ch;

while(1)

{

printf("press 1 for insert element\n");

printf("press 2 for delete element\n");

printf("press 3 for display\n");

printf("press 4 for exit\n");

printf("enter your choice\n");

scanf("%d",&ch);

switch(ch)

{

case 1:insert\_queue();

break;

case 2:delete\_queue();

break;

case 3:display\_queue();

break;

case 4:exit(0);

default:

printf("invalid choice\n");

}

}

}

void insert\_queue()

{

int value;

if(rear==MAX-1)

{

printf("queue is full\n");

}

else

{

if(front==-1)

front=0;

rear++;

printf("enter a value\n");

scanf("%d",&value);

queue[rear]=value;

}

}

void delete\_queue()

{

int x;

if(front==-1)

{

printf("queue is empty\n");

}

else

{

x=queue[front];

printf("%d is deleted\n",x);

front++;

if(front>rear)

front=rear=-1;

}

}

void display\_queue()

{

int i;

if(rear==-1)

{

printf("queue is empty\n");

}

else

{

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

{

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

}

}

}

