/*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++)</pre>
                {
                        printf("%d\n",queue[i]);
                }
        }
}
```



