```
#include<stdio.h>
#include<stdlib.h>
#define QUE_SIZE 2
int item,front=0,rear=-1,q[10];
void insertrear()
{
if(rear==QUE_SIZE-1)
{
printf("queue overflow\n");
return;
}
rear=rear+1;
q[rear]=item;
}
int deletefront()
{
if (front>rear)
{
front=0;
rear=-1;
return -1;
}
return q[front++];
}
void displayQ()
{
int i;
if (front>rear)
{
printf("queue is empty\n");
return;
}
printf("contents of queue\n");
for(i=front;i<=rear;i++)
{
printf("%d\n",q[i]);
}}
int main()
{
int choice;
for(;;)
{
printf("1:insertrear 2:deletefront 3:display 4:exit\n");
printf("enter the choice\n");
```

```
scanf("%d",&choice);
switch(choice)
{
case 1:printf("enter the item to be inserted\n");
          scanf("%d",&item);
           insertrear ();
           break;
case2:item=deletefront();
           if(item==-1)
           printf("queue is empty\n");
           else
           printf("item deleted=%d\n",item);
           break;
case 3:displayQ();
           break;
           default:exit (0);

           }
   }
}
```