```
#include<stdio.h>
#include<stdlib.h>
#define QUE_SIZE 5
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("...MENU...\n1:insertrear\n 2:deletefront\n 3:display\n 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;
                        case 2: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);

                }

        }
```

```
}
```

```
...MENU...
1:insertrear
 2:deletefront
 3:display
 4:exit
enter the choice
1
enter the item to be inserted
6
...MENU...
1:insertrear
 2:deletefront
 3:display
 4:exit
enter the choice
1
enter the item to be inserted
4
...MENU...
1:insertrear
 2:deletefront
 3:display
 4:exit
enter the choice
1
enter the item to be inserted
8
...MENU...
1:insertrear
 2:deletefront
```